



**LAMPIRAN 1**

**HASIL PENGUJIAN**

**TRIAKSIAL *UNCOSOLIDATED UNDRAINED (UU)***

Percobaan ini menggunakan *disturbed sample* berupa tanah merah yang kadar airnya dibuat di atas kadar air maksimumnya kemudian dibuat contoh ujinya menggunakan compaction sebagai pembanding dan extruder sebagai modifikasi. Contoh uji dengan compaction dibuat 3 buah, dengan extruder ada 3 buah, dan dengan extruder + geotekstil ada 3 buah. Contoh-contoh tersebut masing-masing diuji dengan triaksial UU dengan  $\sigma_3 = 0.75 \text{ kg/cm}^2$ ,  $1.25 \text{ kg/cm}^2$ , dan  $1.75 \text{ kg/cm}^2$ . Dikarenakan percobaan ini hanyalah percobaan awal dan keterbatasan waktu, nilai kadar air dan indeks properties tanah merah tidak dicari. Percobaan awal ini hanyalah digunakan untuk melihat perilaku awal dari tanah jika dicetak dengan extruder dan dengan geotekstil. Berikut data-data yang digunakan dalam percobaan awal :

- Dia. contoh uji : 3.6 cm
- Tinggi contoh uji : 7.2 cm
- Vol. contoh uji :  $73.2 \text{ cm}^3$
- LRC pada contoh uji 1 *No Geotex* :  $0.15 \text{ kg/cm}^2$
- LRC umum :  $0.364 \text{ kg/cm}^2$

Setiap contoh uji ditimbang beratnya untuk mengetahui  $\gamma_{wet}$ -nya masing-masing. Hal ini dilakukan sebagai pengontrol antara contoh uji yang dibuat dengan *compaction* dengan contoh uji yang dibuat dengan *extruder*. Dengan mengetahui  $\gamma_{wet}$  pada contoh uji *compaction* maka kita dapat menentukan berat setiap lapisan pada contoh uji *extruder*. Pada tabel 5-1 dapat dilihat bahwa setiap contoh uji mempunyai  $\gamma_{wet}$  yang relatif sama.

Tabel 5-1. Berat tiap contoh uji untuk masing-masing kondisi

No.	Contoh Uji		Berat W (gram)		
			1	2	3
1	Pemadatan Proctor Standar	Tanpa Geotekstil	131.5	131	132
2a	Pemadatan Extruder	Tanpa Geotekstil	127	130	127.5
2b		Dengan Geotekstil	129	128	129.5

Tabel 5-2.  $\gamma_{wet}$  dan  $\gamma_{dry}$  tiap contoh uji untuk masing-masing kondisi

No.	Contoh uji		$\gamma_{wet}$ (gr/cm <sup>3</sup> )			$\gamma_{dry}$ (gr/cm <sup>3</sup> )		
			1	2	3	1	2	3
1	Pemadatan Proctor Standar	Tanpa Geotekstil	1.795	1.788	1.802	1.330	1.325	1.335
2a	Pemadatan Extruder	Tanpa Geotekstil	1.734	1.775	1.741	1.284	1.315	1.289
2b		Dengan Geotekstil	1.761	1.747	1.768	1.305	1.294	1.310

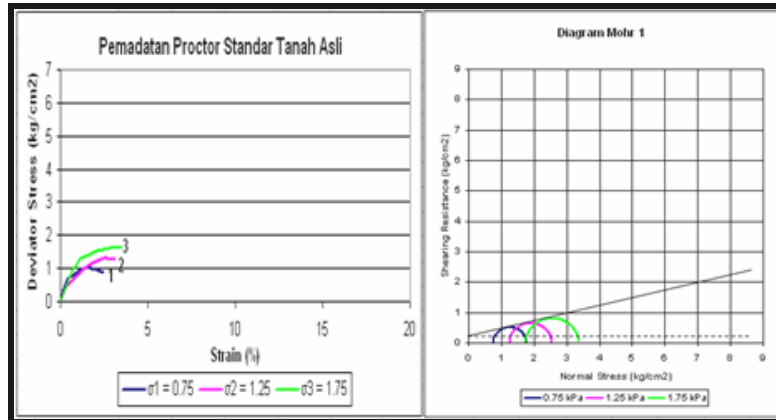
Setelah dilakukan uji triaksial, maka hasil-hasil tersebut akan menghasilkan 2 grafik yaitu grafik *Strain Vs Deviator Stress* dan Grafik *Mohr* atau *Normal Stress Vs Shearing Resistance*. Grafik-grafik tersebut akan menunjukkan perilaku tanah terhadap beban yang diberikan sehingga dapat diketahui parameter-parameter geser tanah.

Pada Grafik 5-1a dapat disimpulkan bahwa tanah pada contoh uji compaction memiliki kemampuan menahan beban maksimum sebesar  $\sigma_3$  yang diberikan dan mengalami *strain* maksimum hingga 3.5 % sebelum mengalami keruntuhan seperti terlihat pada contoh uji 3 dengan  $\sigma_3 = 1.75 \text{ kg/cm}^2$ . Keruntuhan yang terjadi pada contoh uji pun tidak terlihat jelas namun pada saat uji triaksial, pembacaan pada *load dial* telah mengalami pembalikan atau tiga kali menunjukkan angka yang sama. Contoh uji yang dibuat dengan compaction ini menghasilkan parameter geser tanah  $c = 0.23 \text{ kg/cm}^2$  dan  $\phi = 14^\circ$  seperti terlihat pada gambar 5-1b.

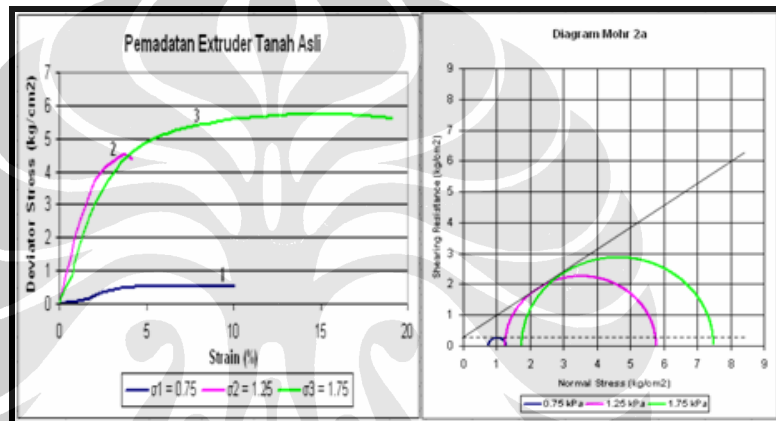
Pada Grafik 5-2a dapat diketahui bahwa tanah pada contoh uji yang dibuat dengan extruder memiliki kemampuan menahan beban maksimum hampir 3,5 kali  $\sigma_3$  yang diberikan dan mengalami *strain* maksimum hingga 14.5 % sebelum mengalami keruntuhan seperti terlihat pada contoh uji 3 dengan  $\sigma_3 = 1.75 \text{ kg/cm}^2$ . Keruntuhan yang terjadi pada contoh uji pun terlihat jelas dengan munculnya retak miring pada badan contoh uji. Namun saat pengujian contoh 1 terdapat perbedaan LRC yang digunakan dibandingkan LRC pada contoh-contoh yang lain. LRC pada contoh uji 1 adalah LRC yang biasa digunakan pada tanah lumpur sehingga menghasilkan grafik deviator yang berbeda serta lingkaran *mohr* yang kecil. Contoh uji yang dibuat dengan *extruder* ini menghasilkan parameter geser tanah  $c = 0.36 \text{ kg/cm}^2$  dan  $\phi = 33^\circ$  seperti terlihat pada gambar 5-2b. Parameter

geser yang dihasilkan lebih besar dibandingkan contoh uji dengan *compaction*. Hal ini disebabkan tanah yang dibuat dengan *extruder* telah mengalami tekanan yang cukup besar pada saat pencetakan dibandingkan energi pada pencetakan contoh uji *compaction*.

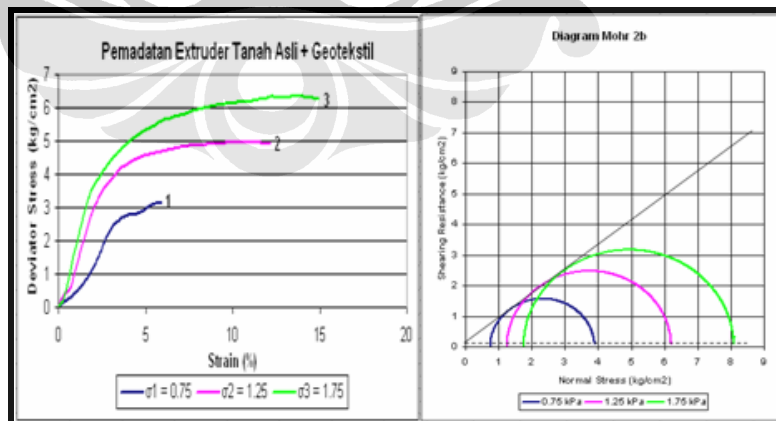
Pada Grafik 5-3a dapat disimpulkan bahwa tanah pada contoh uji extruder dengan geotekstil memiliki kemampuan menahan beban maksimum 4 kali dari  $\sigma_3$  yang diberikan dan mengalami *strain* maksimum hingga 15 % sebelum mengalami keruntuhan seperti terlihat pada contoh uji 3 dengan  $\sigma_3 = 1.75 \text{ kg/cm}^2$ . Keruntuhan yang terjadi pada contoh uji pun terlihat jelas berupa munculnya retak miring pada contoh uji. Namun pada contoh uji 1 keruntuhan terjadi pada lapisan dimana diberikan geotekstil. Hal ini disebabkan kesalahan penempatan geotekstil pada tanah. Pada contoh uji 3 juga terjadi retak pada lapisan 2 dimana terdapat geotekstil pada saat akan dilakukan pengujian. Akhirnya untuk mencoba mengetahui apakah ada perbedaan jika contoh uji telah retak maka tetap dilakukan pengujian dengan syarat  $\sigma_3$  dibuat besar agar tidak runtuh pada awal-awal pengujian triaksial. Contoh-contoh uji ini menghasilkan parameter geser tanah  $c = 0.18 \text{ kg/cm}^2$  dan  $\phi = 38^\circ$  seperti terlihat pada gambar 5-3b. Parameter geser tersebut memiliki nilai  $c$  yang lebih kecil dibandingkan  $c$  pada contoh uji extruder tanpa geoteks. Hal ini disebabkan kohesi yang terjadi antar lapisan tidak terlalu baik disebabkan adanya lapisan geotekstil. Sedangkan pada parameter sudut geser atau  $\phi$  terjadi peningkatan namun tidak signifikan dibandingkan dengan contoh uji extruder tanpa geoteks. Hal ini disebabkan adanya geotekstil yang membantu menambah sudut geser pada contoh uji.



Gambar 5-1. a) Grafik Deviator Stress, b) Grafik Mohr. Kasus Pemadatan Proctor Standar



Gambar 5-2. a) Grafik Deviator Stress, b) Grafik Mohr. Kasus Pemadatan Extruder Tanah Asli



Gambar 5-3. a) Grafik Deviator Stress, b) Grafik Mohr. Kasus Pemadatan Estruder Tanah Asli dengan Geotekstil

Tabel 5-3. Parameter-parameter geser contoh uji dari percobaan triaksial *UU*

Contoh Uji	c (kg/cm <sup>2</sup> )	$\phi$ (°)
1	0.23	14
2a	0.36	33
2b	0.18	38

Pada percobaan awal ini dapat disimpulkan beberapa hal terkait dengan penggunaan ekstruder pada modifikasi contoh uji serta adanya geotekstil pada contoh uji, yaitu :

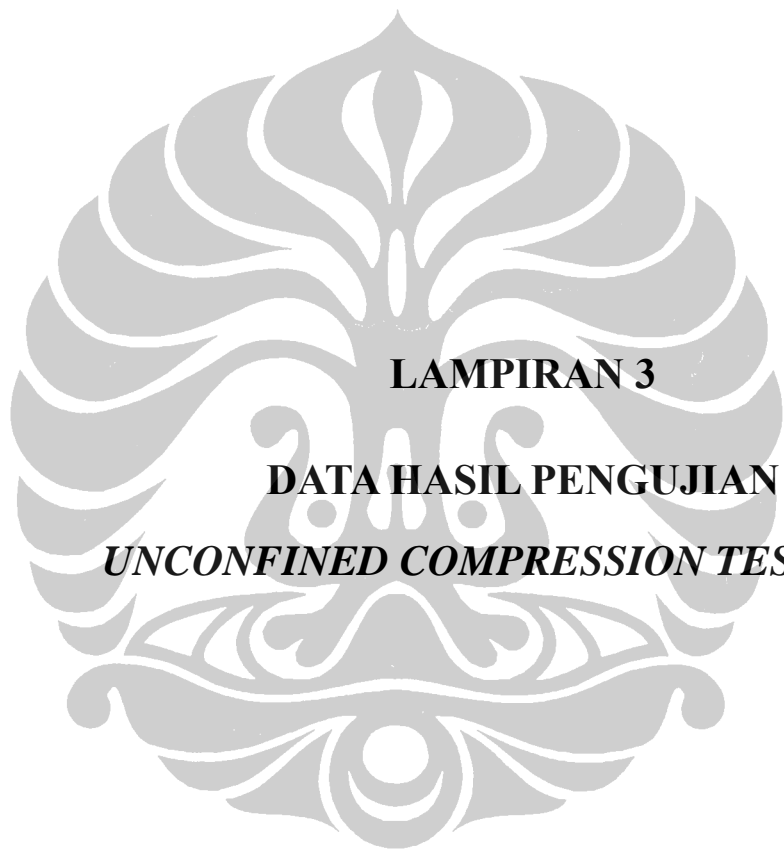
1. Penelitian ini hanya dapat dilakukan pada tanah *disturbed*. Hal ini disebabkan pada pencetakan contoh uji dilakukan modifikasi berupa penggunaan ekstruder, bukan *compaction*.
2. Penggunaan ekstruder pada pencetakan contoh uji membuat tanah menjadi lebih padat dan mengalami tekanan awal sebelum diuji triaksial. Akibatnya hasil triaksial menunjukkan deviator stress dan strain yang lebih besar dibandingkan dengan contoh uji *compaction*.
3. Penggunaan geotekstil pada contoh uji menurunkan kohesi tanah akibat berkurangnya daya lekat antar lapisan akibat adanya geotekstil. Selain itu, disebabkan pula kurangnya goresan pada setiap lapis tanah pada saat pencetakan contoh uji.
4. Penggunaan geotekstil meningkatkan sudut geser tanah namun tidak signifikan. Semakin besar sudut geser semakin besar pula kekuatan geser tanah yang dihasilkan.



**Tabel 5-4. Karakteristik fisik tanah lempung lunak Ujung Harapan [Eva, 2006]**

Lokasi Pengambilan Contoh Tanah	Ujung Harapan
Berat isi, $\gamma$ kg/cm <sup>3</sup>	1.1 – 1.2
Berat jenis, Gs (ASTM D 845)	2.52-2.62
Batas Atterberg (ASTM D 4318)	
▪ Batas cair, LL (%)	67.79
▪ Batas plastis, PL (%)	47.53
▪ Indeks plastisitas, Ip (%)	20.26
Analisa butiran (ASTM D 422)	
▪ Lempung, < 0.002 mm (%)	36.67
▪ Lanau, 0.002 – 0.6 mm (%)	62.07
▪ Pasir, 0.6 – 2 mm (%)	1.26





**LAMPIRAN 3**

**DATA HASIL PENGUJIAN**

***UNCONFINED COMPRESSION TEST (UCT)***

28%	No Geo
AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading	dl in (10 <sup>-3</sup> )	Unit strain dl/Lo	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (kPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	19.000	0.025	0.003	0.997	10.096	3.582	0.355	0.349	35.482
50	35.000	0.050	0.007	0.993	10.132	6.599	0.651	0.697	65.132
75	62.000	0.075	0.010	0.990	10.167	11.689	1.150	1.046	114.972
100	93.000	0.100	0.014	0.986	10.203	17.534	1.719	1.395	171.851
125	110.000	0.125	0.017	0.983	10.239	20.739	2.025	1.743	202.545
150	125.000	0.150	0.021	0.979	10.276	23.568	2.293	2.092	229.348
175	134.000	0.175	0.024	0.976	10.313	25.264	2.450	2.441	244.986
200	144.000	0.200	0.028	0.972	10.350	27.150	2.623	2.789	262.328
225	150.000	0.225	0.031	0.969	10.387	28.281	2.723	3.138	272.278
250	155.000	0.250	0.035	0.965	10.424	29.224	2.803	3.487	280.341
275	160.000	0.275	0.038	0.962	10.462	30.166	2.883	3.835	288.339
300	164.000	0.300	0.042	0.958	10.500	30.921	2.945	4.184	294.476
325	167.000	0.325	0.045	0.955	10.539	31.486	2.988	4.533	298.771
350	170.000	0.350	0.049	0.951	10.577	32.052	3.030	4.881	303.027
375	172.000	0.375	0.052	0.948	10.616	32.429	3.055	5.230	305.469
400	174.000	0.400	0.056	0.944	10.655	32.806	3.079	5.579	307.884
425	175.500	0.425	0.059	0.941	10.695	33.089	3.094	5.927	309.391
450	176.000	0.450	0.063	0.937	10.735	33.183	3.091	6.276	309.122
475	176.500	0.475	0.066	0.934	10.775	33.277	3.088	6.625	308.847
500	176.000	0.500	0.070	0.930	10.815	33.183	3.068	6.974	306.822
525	175.000	0.525	0.073	0.927	10.856	32.995	3.039	7.322	303.936
550	174.000	0.550	0.077	0.923	10.897	32.806	3.011	7.671	301.062
575	173.000	0.575	0.080	0.920	10.938	32.617	2.982	8.020	298.201
600	171.500	0.600	0.084	0.916	10.980	32.335	2.945	8.368	294.495
625	167.000	0.625	0.087	0.913	11.022	31.486	2.857	8.717	285.677
650	163.000	0.650	0.091	0.909	11.064	30.732	2.778	9.066	277.769
675	154.000	0.675	0.094	0.906	11.106	29.035	2.614	9.414	261.426
700	143.000	0.700	0.098	0.902	11.149	26.961	2.418	9.763	241.818
725	120.000	0.725	0.101	0.899	11.193	22.625	2.021	10.112	202.140
750	112.000	0.750	0.105	0.895	11.236	21.116	1.879	10.460	187.932
775	98.000	0.775	0.108	0.892	11.280	18.477	1.638	10.809	163.801
800	86.000	0.800	0.112	0.888	11.324	16.214	1.432	11.158	143.181
825	78.000	0.825	0.115	0.885	11.369	14.706	1.294	11.506	129.353
850	70.000	0.850	0.119	0.881	11.414	13.198	1.156	11.855	115.628
875	64.000	0.875	0.122	0.878	11.459	12.067	1.053	12.204	105.299
900	59.000	0.900	0.126	0.874	11.505	11.124	0.967	12.552	96.687
925	56.000	0.925	0.129	0.871	11.551	10.558	0.914	12.901	91.405
950	52.000	0.950	0.132	0.868	11.598	9.804	0.845	13.250	84.536
975	49.000	0.975	0.136	0.864	11.644	9.238	0.793	13.598	79.339
1000	47.500	1.000	0.139	0.861	11.691	8.956	0.766	13.947	76.600
1025	48.000	1.025	0.143	0.857	11.739	9.050	0.771	14.296	77.092
1050	48.500	1.050	0.146	0.854	11.787	9.144	0.776	14.644	77.579
1075	49.500	1.075	0.150	0.850	11.835	9.333	0.789	14.993	78.855
1100	51.000	1.100	0.153	0.847	11.884	9.616	0.809	15.342	80.911
1125	52.000	1.125	0.157	0.843	11.933	9.804	0.822	15.690	82.158
1150	53.500	1.150	0.160	0.840	11.983	10.087	0.842	16.039	84.178
1175	56.500	1.175	0.164	0.836	12.033	10.653	0.885	16.388	88.529
1200	57.000	1.200	0.167	0.833	12.083	10.747	0.889	16.736	88.940
1225	59.500	1.225	0.171	0.829	12.134	11.218	0.925	17.085	92.452
1250	61.000	1.250	0.174	0.826	12.185	11.501	0.944	17.434	94.384
1275	62.500	1.275	0.178	0.822	12.237	11.784	0.963	17.782	96.297
1300	63.000	1.300	0.181	0.819	12.289	11.878	0.967	18.131	96.656
1325	63.500	1.325	0.185	0.815	12.342	11.972	0.970	18.480	97.008
1350	64.000	1.350	0.188	0.812	12.395	12.067	0.974	18.828	97.354
1375	63.500	1.375	0.192	0.808	12.448	11.972	0.962	19.177	96.178
1400	63.500	1.400	0.195	0.805	12.502	11.972	0.958	19.526	95.763
1425	63.500	1.425	0.199	0.801	12.556	11.972	0.953	19.874	95.348
1450	64.500	1.450	0.202	0.798	12.611	12.161	0.964	20.223	96.428
1475	66.000	1.475	0.206	0.794	12.667	12.444	0.982	20.572	98.240
1500	67.500	1.500	0.209	0.791	12.722	12.726	1.000	20.921	100.031

28% Geo 1

AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading	dl in (10 <sup>-3</sup> )	Unit strain dl/Lo	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (kPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	56.000	0.025	0.003	0.997	10.096	10.558	1.046	0.349	104.578
50	86.000	0.050	0.007	0.993	10.132	16.214	1.600	0.697	160.039
75	120.000	0.075	0.010	0.990	10.167	22.625	2.225	1.046	222.527
100	144.000	0.100	0.014	0.986	10.203	27.150	2.661	1.395	266.091
125	158.000	0.125	0.017	0.983	10.239	29.789	2.909	1.743	290.929
150	169.000	0.150	0.021	0.979	10.276	31.863	3.101	2.092	310.079
175	177.500	0.175	0.024	0.976	10.313	33.466	3.245	2.441	324.515
200	184.000	0.200	0.028	0.972	10.350	34.691	3.352	2.789	335.196
225	189.000	0.225	0.031	0.969	10.387	35.634	3.431	3.138	343.070
250	194.000	0.250	0.035	0.965	10.424	36.577	3.509	3.487	350.878
275	198.000	0.275	0.038	0.962	10.462	37.331	3.568	3.835	356.819
300	201.000	0.300	0.042	0.958	10.500	37.897	3.609	4.184	360.912
325	203.000	0.325	0.045	0.955	10.539	38.274	3.632	4.533	363.177
350	206.500	0.350	0.049	0.951	10.577	38.934	3.681	4.881	368.089
375	208.500	0.375	0.052	0.948	10.616	39.311	3.703	5.230	370.292
400	209.500	0.400	0.056	0.944	10.655	39.499	3.707	5.579	370.699
425	210.500	0.425	0.059	0.941	10.695	39.688	3.711	5.927	371.093
450	211.000	0.450	0.063	0.937	10.735	39.782	3.706	6.276	370.596
475	211.000	0.475	0.066	0.934	10.775	39.782	3.692	6.625	369.217
500	211.000	0.500	0.070	0.930	10.815	39.782	3.678	6.974	367.838
525	210.000	0.525	0.073	0.927	10.856	39.693	3.647	7.322	364.723
550	209.000	0.550	0.077	0.923	10.897	39.405	3.616	7.671	361.620
575	207.000	0.575	0.080	0.920	10.938	39.028	3.568	8.020	356.807
600	204.000	0.600	0.084	0.916	10.980	38.462	3.503	8.368	350.303
625	199.000	0.625	0.087	0.913	11.022	37.519	3.404	8.717	340.417
650	188.000	0.650	0.091	0.909	11.064	35.446	3.204	9.066	320.372
675	170.000	0.675	0.094	0.906	11.106	32.052	2.886	9.414	288.587
700	148.000	0.700	0.098	0.902	11.149	27.904	2.503	9.763	250.273
725	128.000	0.725	0.101	0.899	11.193	24.133	2.156	10.112	215.616
750	109.000	0.750	0.105	0.895	11.236	20.551	1.829	10.460	182.899
775	95.000	0.775	0.108	0.892	11.280	17.911	1.588	10.809	158.786
800	81.000	0.800	0.112	0.888	11.324	15.272	1.349	11.158	134.857
825	72.000	0.825	0.115	0.885	11.369	13.575	1.194	11.506	119.402
850	65.000	0.850	0.119	0.881	11.414	12.255	1.074	11.855	107.369
875	60.000	0.875	0.122	0.878	11.459	11.312	0.987	12.204	98.718
900	56.000	0.900	0.126	0.874	11.505	10.558	0.918	12.552	91.771
925	52.000	0.925	0.129	0.871	11.551	9.804	0.849	12.901	84.876
950	50.500	0.950	0.132	0.868	11.598	9.521	0.821	13.250	82.098
975	50.000	0.975	0.136	0.864	11.644	9.427	0.810	13.598	80.958
1000	49.500	1.000	0.139	0.861	11.691	9.333	0.798	13.947	79.825
1025	49.500	1.025	0.143	0.857	11.739	9.333	0.795	14.296	79.502
1050	50.000	1.050	0.146	0.854	11.787	9.427	0.800	14.644	79.978
1075	50.500	1.075	0.150	0.850	11.835	9.521	0.804	14.993	80.448
1100	51.000	1.100	0.153	0.847	11.884	9.616	0.809	15.342	80.911
1125	51.500	1.125	0.157	0.843	11.933	9.710	0.814	15.690	81.368
1150	53.500	1.150	0.160	0.840	11.983	10.087	0.842	16.039	84.178
1175	55.000	1.175	0.164	0.836	12.033	10.370	0.862	16.388	86.179
1200	57.000	1.200	0.167	0.833	12.083	10.747	0.889	16.736	88.940
1225	60.000	1.225	0.171	0.829	12.134	11.312	0.932	17.085	93.229
1250	62.000	1.250	0.174	0.826	12.185	11.689	0.959	17.434	95.932
1275	64.500	1.275	0.178	0.822	12.237	12.161	0.994	17.782	99.378
1300	66.000	1.300	0.181	0.819	12.289	12.444	1.013	18.131	101.258
1325	67.500	1.325	0.185	0.815	12.342	12.726	1.031	18.480	103.119
1350	69.500	1.350	0.188	0.812	12.395	13.104	1.057	18.828	105.720
1375	72.000	1.375	0.192	0.808	12.448	13.575	1.091	19.177	109.052
1400	75.000	1.400	0.195	0.805	12.502	14.141	1.131	19.526	113.106
1425	78.000	1.425	0.199	0.801	12.556	14.706	1.171	19.874	117.121
1450	80.000	1.450	0.202	0.798	12.611	15.083	1.196	20.223	119.601
1475	83.000	1.475	0.206	0.794	12.667	15.649	1.235	20.572	123.544
1500	86.500	1.500	0.209	0.791	12.722	16.309	1.282	20.921	128.188

28% Geot

AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading	dl in (10 <sup>-3</sup> )	Unit strain dl/Lo	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (kPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	13.000	0.025	0.003	0.997	10.096	2.451	0.243	0.349	24.277
50	24.000	0.050	0.007	0.993	10.132	4.525	0.447	0.697	44.662
75	43.000	0.075	0.010	0.990	10.167	8.107	0.797	1.046	79.739
100	72.000	0.100	0.014	0.986	10.203	13.575	1.330	1.395	133.046
125	91.000	0.125	0.017	0.983	10.239	17.157	1.676	1.743	167.560
150	112.000	0.150	0.021	0.979	10.276	21.116	2.055	2.092	205.496
175	130.000	0.175	0.024	0.976	10.313	24.510	2.377	2.441	237.673
200	145.000	0.200	0.028	0.972	10.350	27.338	2.641	2.789	264.149
225	156.000	0.225	0.031	0.969	10.387	29.412	2.832	3.138	283.169
250	164.000	0.250	0.035	0.965	10.424	30.921	2.966	3.487	296.619
275	172.000	0.275	0.038	0.962	10.462	32.429	3.100	3.835	309.964
300	178.000	0.300	0.042	0.958	10.500	33.560	3.196	4.184	319.614
325	183.000	0.325	0.045	0.955	10.539	34.503	3.274	4.533	327.396
350	187.500	0.350	0.049	0.951	10.577	35.351	3.342	4.881	334.221
375	192.500	0.375	0.052	0.948	10.616	36.294	3.419	5.230	341.876
400	196.500	0.400	0.056	0.944	10.655	37.048	3.477	5.579	347.696
425	199.500	0.425	0.059	0.941	10.695	37.614	3.517	5.927	351.701
450	202.500	0.450	0.063	0.937	10.735	38.179	3.557	6.276	355.666
475	204.500	0.475	0.066	0.934	10.775	38.556	3.578	6.625	357.843
500	206.000	0.500	0.070	0.930	10.815	38.839	3.591	6.974	359.122
525	208.000	0.525	0.073	0.927	10.856	39.216	3.612	7.322	361.249
550	214.000	0.550	0.077	0.923	10.897	40.348	3.703	7.671	370.272
575	215.500	0.575	0.080	0.920	10.938	40.630	3.715	8.020	371.459
600	217.000	0.600	0.084	0.916	10.980	40.913	3.726	8.368	372.627
625	218.000	0.625	0.087	0.913	11.022	41.102	3.729	8.717	372.919
650	219.000	0.650	0.091	0.909	11.064	41.290	3.732	9.066	373.199
675	219.500	0.675	0.094	0.906	11.106	41.385	3.726	9.414	372.617
700	220.000	0.700	0.098	0.902	11.149	41.479	3.720	9.763	372.028
725	220.000	0.725	0.101	0.899	11.193	41.479	3.706	10.112	370.590
750	219.000	0.750	0.105	0.895	11.236	41.290	3.675	10.460	367.475
775	217.500	0.775	0.108	0.892	11.280	41.007	3.635	10.809	363.537
800	215.500	0.800	0.112	0.888	11.324	40.630	3.588	11.158	358.786
825	213.500	0.825	0.115	0.885	11.369	40.253	3.541	11.506	354.061
850	210.500	0.850	0.119	0.881	11.414	39.688	3.477	11.855	347.711
875	208.000	0.875	0.122	0.878	11.459	39.216	3.422	12.204	342.222
900	204.000	0.900	0.126	0.874	11.505	38.462	3.343	12.552	334.308
925	199.000	0.925	0.129	0.871	11.551	37.519	3.248	12.901	324.814
950	191.000	0.950	0.132	0.868	11.598	36.011	3.105	13.250	310.508
975	178.000	0.975	0.136	0.864	11.644	33.560	2.882	13.598	288.211
1000	167.000	1.000	0.139	0.861	11.691	31.486	2.693	13.947	269.309
1025	158.000	1.025	0.143	0.857	11.739	29.789	2.538	14.296	253.763
1050	150.000	1.050	0.146	0.854	11.787	28.281	2.399	14.644	239.934
1075	142.000	1.075	0.150	0.850	11.835	26.773	2.262	14.993	226.209
1100	135.000	1.100	0.153	0.847	11.884	25.453	2.142	15.342	214.176
1125	128.000	1.125	0.157	0.843	11.933	24.133	2.022	15.690	202.234
1150	120.000	1.150	0.160	0.840	11.983	22.625	1.888	16.039	188.811
1175	110.000	1.175	0.164	0.836	12.033	20.739	1.724	16.388	172.358
1200	102.000	1.200	0.167	0.833	12.083	19.231	1.592	16.736	159.156
1225	97.000	1.225	0.171	0.829	12.134	18.288	1.507	17.085	150.720
1250	91.500	1.250	0.174	0.826	12.185	17.251	1.416	17.434	141.577
1275	87.000	1.275	0.178	0.822	12.237	16.403	1.340	17.782	134.045
1300	82.000	1.300	0.181	0.819	12.289	15.460	1.258	18.131	125.806
1325	78.500	1.325	0.185	0.815	12.342	14.800	1.199	18.480	119.923
1350	76.000	1.350	0.188	0.812	12.395	14.329	1.156	18.828	115.607
1375	73.500	1.375	0.192	0.808	12.448	13.858	1.113	19.177	111.324
1400	71.500	1.400	0.195	0.805	12.502	13.481	1.078	19.526	107.828
1425	70.000	1.425	0.199	0.801	12.556	13.198	1.051	19.874	105.108
1450	68.000	1.450	0.202	0.798	12.611	12.821	1.017	20.223	101.661
1475	67.000	1.475	0.206	0.794	12.667	12.632	0.997	20.572	99.728
1500	64.500	1.500	0.209	0.791	12.722	12.161	0.956	20.921	95.585

30% No Geo	
AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading -	dl in (10 <sup>-3</sup> )	Unit strain dl/LO	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (kPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	35.000	0.025	0.003	0.997	10.096	6.599	0.654	0.349	65.361
50	50.000	0.050	0.007	0.993	10.132	9.427	0.930	0.697	93.046
75	60.000	0.075	0.010	0.990	10.167	11.312	1.113	1.046	111.263
100	69.000	0.100	0.014	0.986	10.203	13.009	1.275	1.395	127.502
125	75.000	0.125	0.017	0.983	10.239	14.141	1.381	1.743	138.099
150	81.000	0.150	0.021	0.979	10.276	15.272	1.486	2.092	148.618
175	86.000	0.175	0.024	0.976	10.313	16.214	1.572	2.441	157.230
200	90.000	0.200	0.028	0.972	10.350	16.969	1.640	2.789	163.955
225	93.000	0.225	0.031	0.969	10.387	17.534	1.688	3.138	168.812
250	96.000	0.250	0.035	0.965	10.424	18.100	1.736	3.487	173.630
275	99.000	0.275	0.038	0.962	10.462	18.665	1.784	3.835	178.410
300	101.000	0.300	0.042	0.958	10.500	19.043	1.814	4.184	181.354
325	103.500	0.325	0.045	0.955	10.539	19.514	1.852	4.533	185.167
350	105.000	0.350	0.049	0.951	10.577	19.797	1.872	4.881	187.164
375	107.000	0.375	0.052	0.948	10.616	20.174	1.900	5.230	190.030
400	108.000	0.400	0.056	0.944	10.655	20.362	1.911	5.579	191.100
425	109.500	0.425	0.059	0.941	10.695	20.645	1.930	5.927	193.039
450	110.500	0.450	0.063	0.937	10.735	20.834	1.941	6.276	194.080
475	111.500	0.475	0.066	0.934	10.775	21.022	1.951	6.625	195.108
500	112.000	0.500	0.070	0.930	10.815	21.116	1.953	6.974	195.251
525	112.500	0.525	0.073	0.927	10.856	21.211	1.954	7.322	195.387
550	113.000	0.550	0.077	0.923	10.897	21.305	1.955	7.671	195.517
575	113.000	0.575	0.080	0.920	10.938	21.305	1.948	8.020	194.779
600	113.500	0.600	0.084	0.916	10.980	21.399	1.949	8.368	194.899
625	114.500	0.625	0.087	0.913	11.022	21.588	1.959	8.717	195.868
650	115.000	0.650	0.091	0.909	11.064	21.682	1.960	9.066	195.972
675	115.000	0.675	0.094	0.906	11.106	21.682	1.952	9.414	195.221
700	114.000	0.700	0.098	0.902	11.149	21.494	1.928	9.763	192.778
725	113.500	0.725	0.101	0.899	11.193	21.399	1.912	10.112	191.191
750	112.000	0.750	0.105	0.895	11.236	21.116	1.879	10.460	187.932
775	108.000	0.775	0.108	0.892	11.280	20.362	1.805	10.809	180.515
800	102.500	0.800	0.112	0.888	11.324	19.325	1.707	11.158	170.652
825	95.000	0.825	0.115	0.885	11.369	17.911	1.575	11.506	157.545
850	88.000	0.850	0.119	0.881	11.414	16.592	1.454	11.855	145.361
875	80.000	0.875	0.122	0.878	11.459	15.083	1.316	12.204	131.624
900	72.000	0.900	0.126	0.874	11.505	13.575	1.180	12.552	117.991
925	65.000	0.925	0.129	0.871	11.551	12.255	1.061	12.901	106.095
950	58.000	0.950	0.132	0.868	11.598	10.935	0.943	13.250	94.290
975	52.000	0.975	0.136	0.864	11.644	9.804	0.842	13.598	84.196
1000	47.500	1.000	0.139	0.861	11.691	8.956	0.766	13.947	76.600
1025	45.500	1.025	0.143	0.857	11.739	8.579	0.731	14.296	73.077
1050	43.000	1.050	0.146	0.854	11.787	8.107	0.688	14.644	68.781
1075	42.000	1.075	0.150	0.850	11.835	7.919	0.669	14.993	66.907
1100	41.500	1.100	0.153	0.847	11.884	7.824	0.658	15.342	65.839
1125	41.500	1.125	0.157	0.843	11.933	7.824	0.656	15.690	65.568
1150	41.000	1.150	0.160	0.840	11.983	7.730	0.645	16.039	64.510
1175	41.000	1.175	0.164	0.835	12.033	7.730	0.642	16.388	64.242
1200	41.500	1.200	0.167	0.833	12.083	7.824	0.648	16.736	64.755
1225	42.000	1.225	0.171	0.829	12.134	7.919	0.653	17.085	65.260
1250	42.500	1.250	0.174	0.826	12.185	8.013	0.658	17.434	65.760
1275	43.000	1.275	0.178	0.822	12.237	8.107	0.663	17.782	66.252
1300	43.500	1.300	0.181	0.819	12.289	8.201	0.667	18.131	66.738
1325	44.500	1.325	0.185	0.815	12.342	8.390	0.680	18.480	67.982
1350	45.000	1.350	0.188	0.812	12.395	8.484	0.685	18.828	68.452
1375	45.500	1.375	0.192	0.808	12.448	8.579	0.689	19.177	68.915
1400	46.500	1.400	0.195	0.805	12.502	8.767	0.701	19.526	70.126
1425	47.500	1.425	0.199	0.801	12.556	8.956	0.713	19.874	71.323
1450	48.000	1.450	0.202	0.798	12.611	9.050	0.718	20.223	71.761
1475	49.500	1.475	0.206	0.794	12.667	9.333	0.737	20.572	73.680
1500	50.000	1.500	0.209	0.791	12.722	9.427	0.741	20.921	74.097

30% Geo 1

AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading -	dl in (10 <sup>-3</sup> )	Unit strain dl/Lo	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (KPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	12.000	0.025	0.003	0.997	10.096	2.262	0.224	0.349	22.409
50	26.000	0.050	0.007	0.993	10.132	4.902	0.484	0.697	48.384
75	49.000	0.075	0.010	0.990	10.167	9.238	0.909	1.046	90.865
100	63.000	0.100	0.014	0.986	10.203	11.878	1.164	1.395	116.415
125	73.000	0.125	0.017	0.983	10.239	13.763	1.344	1.743	134.416
150	80.000	0.150	0.021	0.979	10.276	15.083	1.468	2.092	146.783
175	84.000	0.175	0.024	0.976	10.313	15.837	1.536	2.441	153.573
200	92.000	0.200	0.028	0.972	10.350	17.346	1.676	2.789	167.598
225	94.500	0.225	0.031	0.969	10.387	17.817	1.715	3.138	171.535
250	97.000	0.250	0.035	0.965	10.424	18.288	1.754	3.487	175.439
275	99.500	0.275	0.038	0.962	10.462	18.760	1.793	3.835	179.311
300	101.500	0.300	0.042	0.958	10.500	19.137	1.823	4.184	182.252
325	103.500	0.325	0.045	0.955	10.539	19.514	1.852	4.533	185.167
350	105.000	0.350	0.049	0.951	10.577	19.797	1.872	4.881	187.164
375	106.500	0.375	0.052	0.948	10.616	20.080	1.891	5.230	189.142
400	107.500	0.400	0.056	0.944	10.655	20.268	1.902	5.579	190.215
425	108.500	0.425	0.059	0.941	10.695	20.457	1.913	5.927	191.276
450	109.000	0.450	0.063	0.937	10.735	20.551	1.914	6.276	191.445
475	109.500	0.475	0.066	0.934	10.775	20.645	1.916	6.625	191.808
500	109.500	0.500	0.070	0.930	10.815	20.645	1.909	6.974	190.892
525	110.000	0.525	0.073	0.927	10.856	20.739	1.910	7.322	191.045
550	110.000	0.550	0.077	0.923	10.897	20.739	1.903	7.671	190.327
575	110.000	0.575	0.080	0.920	10.938	20.739	1.896	8.020	189.608
600	110.000	0.600	0.084	0.916	10.980	20.739	1.889	8.368	188.889
625	109.500	0.625	0.087	0.913	11.022	20.645	1.873	8.717	187.315
650	109.000	0.650	0.091	0.909	11.064	20.551	1.857	9.066	185.747
675	108.000	0.675	0.094	0.906	11.106	20.362	1.833	9.414	183.338
700	107.500	0.700	0.098	0.902	11.149	20.268	1.818	9.763	181.786
725	106.000	0.725	0.101	0.899	11.193	19.985	1.786	10.112	178.557
750	104.000	0.750	0.105	0.895	11.236	19.608	1.745	10.460	174.509
775	102.000	0.775	0.108	0.892	11.280	19.231	1.705	10.809	170.486
800	99.000	0.800	0.112	0.888	11.324	18.665	1.648	11.158	164.825
825	96.000	0.825	0.115	0.885	11.369	18.100	1.592	11.506	159.203
850	93.000	0.850	0.119	0.881	11.414	17.534	1.536	11.855	153.620
875	89.000	0.875	0.122	0.878	11.459	16.780	1.464	12.204	146.431
900	86.000	0.900	0.126	0.874	11.505	16.214	1.409	12.552	140.934
925	84.500	0.925	0.129	0.871	11.551	15.932	1.379	12.901	137.923
950	81.000	0.950	0.132	0.868	11.598	15.272	1.317	13.250	131.681
975	79.000	0.975	0.136	0.864	11.644	14.895	1.279	13.598	127.914
1000	77.000	1.000	0.139	0.861	11.691	14.518	1.242	13.947	124.172
1025	75.000	1.025	0.143	0.857	11.739	14.141	1.205	14.296	120.457
1050	73.500	1.050	0.146	0.854	11.787	13.858	1.176	14.644	117.568
1075	72.500	1.075	0.150	0.850	11.835	13.669	1.155	14.993	115.494
1100	71.500	1.100	0.153	0.847	11.884	13.481	1.134	15.342	113.434
1125	71.000	1.125	0.157	0.843	11.933	13.386	1.122	15.690	112.177
1150	70.000	1.150	0.160	0.840	11.983	13.198	1.101	16.039	110.140
1175	69.000	1.175	0.164	0.836	12.033	13.009	1.081	16.388	108.115
1200	69.000	1.200	0.167	0.833	12.083	13.009	1.077	16.736	107.664
1225	69.000	1.225	0.171	0.829	12.134	13.009	1.072	17.085	107.214
1250	69.000	1.250	0.174	0.826	12.185	13.009	1.068	17.434	106.763
1275	69.000	1.275	0.178	0.822	12.237	13.009	1.063	17.782	106.312
1300	69.000	1.300	0.181	0.819	12.289	13.009	1.059	18.131	105.861
1325	69.500	1.325	0.185	0.815	12.342	13.104	1.062	18.480	106.174
1350	69.500	1.350	0.188	0.812	12.395	13.104	1.057	18.828	105.720
1375	69.500	1.375	0.192	0.808	12.448	13.104	1.053	19.177	105.266
1400	69.500	1.400	0.195	0.805	12.502	13.104	1.048	19.526	104.812
1425	69.000	1.425	0.199	0.801	12.556	13.009	1.036	19.874	103.607
1450	69.000	1.450	0.202	0.798	12.611	13.009	1.032	20.223	103.156
1475	68.500	1.475	0.206	0.794	12.667	12.915	1.020	20.572	101.961
1500	68.500	1.500	0.209	0.791	12.722	12.915	1.015	20.921	101.513



30% Geo2

AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading	dl in (10 <sup>-3</sup> )	Unit strain dl/Lo	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (kPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	39.000	0.025	0.003	0.997	10.096	7.353	0.728	0.349	72.831
50	59.000	0.050	0.007	0.993	10.132	11.124	1.098	0.697	109.795
75	71.000	0.075	0.010	0.990	10.167	13.386	1.317	1.046	131.662
100	81.000	0.100	0.014	0.986	10.203	15.272	1.497	1.395	149.676
125	89.000	0.125	0.017	0.983	10.239	16.780	1.639	1.743	163.878
150	94.000	0.150	0.021	0.979	10.276	17.723	1.725	2.092	172.470
175	98.000	0.175	0.024	0.976	10.313	18.477	1.792	2.441	179.169
200	100.500	0.200	0.028	0.972	10.350	18.948	1.831	2.789	183.083
225	103.000	0.225	0.031	0.969	10.387	19.420	1.870	3.138	186.964
250	105.000	0.250	0.035	0.965	10.424	19.797	1.899	3.487	189.908
275	106.500	0.275	0.038	0.962	10.462	20.080	1.919	3.835	191.925
300	108.500	0.300	0.042	0.958	10.500	20.457	1.948	4.184	194.821
325	109.500	0.325	0.045	0.955	10.539	20.645	1.959	4.533	195.901
350	110.000	0.350	0.049	0.951	10.577	20.739	1.961	4.881	196.077
375	112.500	0.375	0.052	0.948	10.616	21.211	1.998	5.230	199.798
400	113.500	0.400	0.056	0.944	10.655	21.399	2.008	5.579	200.832
425	115.000	0.425	0.059	0.941	10.695	21.682	2.027	5.927	202.735
450	116.000	0.450	0.063	0.937	10.735	21.871	2.037	6.276	203.740
475	117.000	0.475	0.066	0.934	10.775	22.059	2.047	6.625	204.732
500	117.500	0.500	0.070	0.930	10.815	22.153	2.048	6.974	204.839
525	118.000	0.525	0.073	0.927	10.856	22.248	2.049	7.322	204.939
550	118.500	0.550	0.077	0.923	10.897	22.342	2.050	7.671	205.034
575	119.000	0.575	0.080	0.920	10.938	22.436	2.051	8.020	205.121
600	119.500	0.600	0.084	0.916	10.980	22.531	2.052	8.368	205.202
625	120.000	0.625	0.087	0.913	11.022	22.625	2.053	8.717	205.277
650	120.000	0.650	0.091	0.909	11.064	22.625	2.045	9.066	204.493
675	120.500	0.675	0.094	0.906	11.106	22.719	2.046	9.414	204.557
700	120.500	0.700	0.098	0.902	11.149	22.719	2.038	9.763	203.770
725	120.500	0.725	0.101	0.899	11.193	22.719	2.030	10.112	202.983
750	120.500	0.750	0.105	0.895	11.236	22.719	2.022	10.460	202.195
775	120.500	0.775	0.108	0.892	11.280	22.719	2.014	10.809	201.408
800	120.500	0.800	0.112	0.888	11.324	22.719	2.006	11.158	200.620
825	120.500	0.825	0.115	0.885	11.369	22.719	1.998	11.506	199.833
850	120.000	0.850	0.119	0.881	11.414	22.625	1.982	11.855	198.220
875	120.000	0.875	0.122	0.878	11.459	22.625	1.974	12.204	197.436
900	119.500	0.900	0.126	0.874	11.505	22.531	1.958	12.552	195.832
925	118.000	0.925	0.129	0.871	11.551	22.248	1.926	12.901	192.603
950	117.000	0.950	0.132	0.868	11.598	22.059	1.902	13.250	190.206
975	115.500	0.975	0.136	0.864	11.644	21.776	1.870	13.598	187.013
1000	113.500	1.000	0.139	0.861	11.691	21.399	1.830	13.947	183.033
1025	110.500	1.025	0.143	0.857	11.739	20.834	1.775	14.296	177.473
1050	107.000	1.050	0.146	0.854	11.787	20.174	1.712	14.644	171.153
1075	102.000	1.075	0.150	0.850	11.835	19.231	1.625	14.993	162.488
1100	97.000	1.100	0.153	0.847	11.884	18.288	1.539	15.342	153.890
1125	90.000	1.125	0.157	0.843	11.933	16.969	1.422	15.690	142.196
1150	89.000	1.150	0.160	0.840	11.983	16.780	1.400	16.039	140.035
1175	88.000	1.175	0.164	0.836	12.033	16.592	1.379	16.388	137.886
1200	77.000	1.200	0.167	0.833	12.083	14.518	1.201	16.736	120.147
1225	74.000	1.225	0.171	0.829	12.134	13.952	1.150	17.085	114.983
1250	68.000	1.250	0.174	0.825	12.185	12.821	1.052	17.434	105.215
1275	64.000	1.275	0.178	0.822	12.237	12.067	0.986	17.782	98.608
1300	60.000	1.300	0.181	0.819	12.289	11.312	0.921	18.131	92.053
1325	59.000	1.325	0.185	0.815	12.342	11.124	0.901	18.480	90.133
1350	58.000	1.350	0.188	0.812	12.395	10.935	0.882	18.828	88.227
1375	57.000	1.375	0.192	0.808	12.448	10.747	0.863	19.177	86.333
1400	56.000	1.400	0.195	0.805	12.502	10.558	0.845	19.526	84.452
1425	54.500	1.425	0.199	0.801	12.556	10.275	0.818	19.874	81.834
1450	53.000	1.450	0.202	0.798	12.611	9.993	0.792	20.223	79.236
1475	51.500	1.475	0.206	0.794	12.667	9.710	0.767	20.572	76.657
1500	49.500	1.500	0.209	0.791	12.722	9.333	0.734	20.921	73.356

32% No Geo	
AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading -	dl in (10 <sup>-3</sup> )	Unit strain dl/LO	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (kPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	17.000	0.025	0.003	0.997	10.096	3.205	0.317	0.349	31.747
50	25.000	0.050	0.007	0.993	10.132	4.714	0.465	0.697	46.523
75	31.000	0.075	0.010	0.990	10.167	5.845	0.575	1.046	57.486
100	37.000	0.100	0.014	0.986	10.203	6.976	0.684	1.395	68.371
125	42.500	0.125	0.017	0.983	10.239	8.013	0.783	1.743	78.256
150	47.000	0.150	0.021	0.979	10.276	8.861	0.862	2.092	86.235
175	51.000	0.175	0.024	0.976	10.313	9.616	0.932	2.441	93.241
200	53.500	0.200	0.028	0.972	10.350	10.087	0.975	2.789	97.462
225	58.000	0.225	0.031	0.969	10.387	10.935	1.053	3.138	105.281
250	60.000	0.250	0.035	0.965	10.424	11.312	1.085	3.487	108.519
275	63.000	0.275	0.038	0.962	10.462	11.878	1.135	3.835	113.533
300	65.000	0.300	0.042	0.958	10.500	12.255	1.167	4.184	116.713
325	67.000	0.325	0.045	0.955	10.539	12.632	1.199	4.533	119.866
350	68.500	0.350	0.049	0.951	10.577	12.915	1.221	4.881	122.102
375	70.000	0.375	0.052	0.948	10.616	13.198	1.243	5.230	124.319
400	72.000	0.400	0.056	0.944	10.655	13.575	1.274	5.579	127.400
425	73.000	0.425	0.059	0.941	10.695	13.763	1.287	5.927	129.693
450	75.000	0.450	0.063	0.937	10.735	14.141	1.317	6.276	131.728
475	75.500	0.475	0.066	0.934	10.775	14.235	1.321	6.625	132.113
500	77.000	0.500	0.070	0.930	10.815	14.518	1.342	6.974	134.235
525	78.000	0.525	0.073	0.927	10.856	14.706	1.355	7.322	135.468
550	79.500	0.550	0.077	0.923	10.897	14.989	1.376	7.671	137.554
575	80.000	0.575	0.080	0.920	10.938	15.083	1.379	8.020	137.897
600	81.000	0.600	0.084	0.916	10.980	15.272	1.391	8.368	139.091
625	82.000	0.625	0.087	0.913	11.022	15.460	1.403	8.717	140.272
650	83.000	0.650	0.091	0.909	11.064	15.649	1.414	9.066	141.441
675	83.500	0.675	0.094	0.906	11.106	15.743	1.417	9.414	141.747
700	84.000	0.700	0.098	0.902	11.149	15.837	1.420	9.763	142.047
725	85.000	0.725	0.101	0.899	11.193	16.026	1.432	10.112	143.183
750	85.500	0.750	0.105	0.895	11.236	16.120	1.435	10.460	143.466
775	86.000	0.775	0.108	0.892	11.280	16.214	1.437	10.809	143.743
800	86.500	0.800	0.112	0.888	11.324	16.309	1.440	11.158	144.014
825	87.000	0.825	0.115	0.885	11.369	16.403	1.443	11.506	144.278
850	88.000	0.850	0.119	0.881	11.414	16.592	1.454	11.855	145.361
875	88.500	0.875	0.122	0.878	11.459	16.686	1.456	12.204	145.609
900	89.000	0.900	0.126	0.874	11.505	16.780	1.458	12.552	145.850
925	89.500	0.925	0.129	0.871	11.551	16.874	1.461	12.901	146.084
950	90.000	0.950	0.132	0.868	11.598	16.969	1.463	13.250	146.313
975	90.200	0.975	0.136	0.864	11.644	17.006	1.460	13.598	146.048
1000	90.500	1.000	0.139	0.861	11.691	17.063	1.459	13.947	145.943
1025	91.000	1.025	0.143	0.857	11.739	17.157	1.462	14.296	146.154
1050	91.200	1.050	0.146	0.854	11.787	17.195	1.459	14.644	145.880
1075	92.000	1.075	0.150	0.850	11.835	17.346	1.466	14.993	146.558
1100	92.000	1.100	0.153	0.847	11.884	17.346	1.460	15.342	145.957
1125	92.500	1.125	0.157	0.843	11.933	17.440	1.461	15.690	146.146
1150	93.000	1.150	0.160	0.840	11.983	17.534	1.463	16.039	146.328
1175	93.000	1.175	0.164	0.836	12.033	17.534	1.457	16.388	145.721
1200	93.500	1.200	0.167	0.833	12.083	17.628	1.459	16.736	145.893
1225	94.000	1.225	0.171	0.829	12.134	17.723	1.461	17.085	146.059
1250	94.200	1.250	0.174	0.826	12.185	17.760	1.458	17.434	145.754
1275	94.500	1.275	0.178	0.822	12.237	17.817	1.456	17.782	145.601
1300	95.000	1.300	0.181	0.819	12.289	17.911	1.458	18.131	145.751
1325	95.000	1.325	0.185	0.815	12.342	17.911	1.451	18.480	145.130
1350	95.500	1.350	0.188	0.812	12.395	18.006	1.453	18.828	145.270
1375	96.000	1.375	0.192	0.808	12.448	18.100	1.454	19.177	145.403
1400	96.000	1.400	0.195	0.805	12.502	18.100	1.448	19.526	144.776
1425	96.200	1.425	0.199	0.801	12.556	18.138	1.444	19.874	144.449
1450	96.500	1.450	0.202	0.798	12.611	18.194	1.443	20.223	144.269
1475	97.000	1.475	0.206	0.794	12.667	18.288	1.444	20.572	144.382
1500	97.200	1.500	0.209	0.791	12.722	18.326	1.440	20.921	144.045



32% Geo 1

AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading -	dl in (10 <sup>-3</sup> )	Unit strain dl/L0	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (kPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	22.000	0.025	0.003	0.997	10.096	4.148	0.411	0.349	41.084
50	30.000	0.050	0.007	0.993	10.132	5.656	0.558	0.697	55.828
75	36.500	0.075	0.010	0.990	10.167	6.882	0.677	1.046	67.685
100	43.000	0.100	0.014	0.986	10.203	8.107	0.795	1.395	79.458
125	47.000	0.125	0.017	0.983	10.239	8.861	0.865	1.743	86.542
150	51.500	0.150	0.021	0.979	10.276	9.710	0.945	2.092	94.492
175	55.000	0.175	0.024	0.976	10.313	10.370	1.006	2.441	100.554
200	58.000	0.200	0.028	0.972	10.350	10.935	1.057	2.789	105.660
225	61.000	0.225	0.031	0.969	10.387	11.501	1.107	3.138	110.726
250	63.000	0.250	0.035	0.965	10.424	11.878	1.139	3.487	113.945
275	66.000	0.275	0.038	0.962	10.462	12.444	1.189	3.835	118.940
300	68.000	0.300	0.042	0.958	10.500	12.821	1.221	4.184	122.100
325	70.000	0.325	0.045	0.955	10.539	13.198	1.252	4.533	125.233
350	72.000	0.350	0.049	0.951	10.577	13.575	1.283	4.881	128.341
375	73.000	0.375	0.052	0.948	10.616	13.763	1.296	5.230	129.647
400	74.000	0.400	0.056	0.944	10.655	13.952	1.309	5.579	130.939
425	75.500	0.425	0.059	0.941	10.695	14.235	1.331	5.927	133.100
450	77.500	0.450	0.063	0.937	10.735	14.612	1.361	6.276	136.119
475	78.500	0.475	0.066	0.934	10.775	14.800	1.374	6.625	137.363
500	80.000	0.500	0.070	0.930	10.815	15.083	1.395	6.974	139.465
525	81.000	0.525	0.073	0.927	10.856	15.272	1.407	7.322	140.679
550	82.000	0.550	0.077	0.923	10.897	15.460	1.419	7.671	141.880
575	83.000	0.575	0.080	0.920	10.938	15.649	1.431	8.020	143.068
600	84.000	0.600	0.084	0.916	10.980	15.837	1.442	8.368	144.243
625	85.000	0.625	0.087	0.913	11.022	16.026	1.454	8.717	145.404
650	86.000	0.650	0.091	0.909	11.064	16.214	1.466	9.066	146.553
675	86.500	0.675	0.094	0.906	11.106	16.309	1.468	9.414	146.840
700	87.000	0.700	0.098	0.902	11.149	16.403	1.471	9.763	147.120
725	88.000	0.725	0.101	0.899	11.193	16.592	1.482	10.112	148.236
750	88.500	0.750	0.105	0.895	11.236	16.686	1.485	10.460	148.500
775	89.000	0.775	0.108	0.892	11.280	16.780	1.488	10.809	148.758
800	90.000	0.800	0.112	0.888	11.324	16.969	1.498	11.158	149.841
825	90.500	0.825	0.115	0.885	11.369	17.063	1.501	11.506	150.082
850	91.000	0.850	0.119	0.881	11.414	17.157	1.503	11.855	150.317
875	91.500	0.875	0.122	0.878	11.459	17.251	1.505	12.204	150.545
900	92.000	0.900	0.126	0.874	11.505	17.346	1.508	12.552	150.766
925	93.000	0.925	0.129	0.871	11.551	17.534	1.518	12.901	151.797
950	93.200	0.950	0.132	0.868	11.598	17.572	1.515	13.250	151.515
975	93.500	0.975	0.136	0.864	11.644	17.628	1.514	13.598	151.392
1000	94.000	1.000	0.139	0.861	11.691	17.723	1.516	13.947	151.587
1025	94.500	1.025	0.143	0.857	11.739	17.817	1.518	14.296	151.776
1050	95.000	1.050	0.146	0.854	11.787	17.911	1.520	14.644	151.958
1075	95.200	1.075	0.150	0.850	11.835	17.949	1.517	14.993	151.656
1100	96.000	1.100	0.153	0.847	11.884	18.100	1.523	15.342	152.303
1125	96.000	1.125	0.157	0.843	11.933	18.100	1.517	15.690	151.676
1150	96.500	1.150	0.160	0.840	11.983	18.194	1.518	16.039	151.835
1175	96.800	1.175	0.164	0.836	12.033	18.251	1.517	16.388	151.675
1200	97.000	1.200	0.167	0.833	12.083	18.288	1.514	16.736	151.354
1225	97.500	1.225	0.171	0.829	12.134	18.383	1.515	17.085	151.497
1250	97.500	1.250	0.174	0.825	12.185	18.383	1.509	17.434	150.860
1275	98.000	1.275	0.178	0.822	12.237	18.477	1.510	17.782	150.994
1300	98.000	1.300	0.181	0.819	12.289	18.477	1.504	18.131	150.353
1325	98.200	1.325	0.185	0.815	12.342	18.515	1.500	18.480	150.018
1350	98.500	1.350	0.188	0.812	12.395	18.571	1.498	18.828	149.833
1375	98.500	1.375	0.192	0.808	12.448	18.571	1.492	19.177	149.190
1400	98.500	1.400	0.195	0.805	12.502	18.571	1.485	19.526	148.546
1425	99.000	1.425	0.199	0.801	12.556	18.665	1.487	19.874	148.653
1450	99.000	1.450	0.202	0.798	12.611	18.665	1.480	20.223	148.006
1475	99.000	1.475	0.206	0.794	12.667	18.665	1.474	20.572	147.359
1500	98.500	1.500	0.209	0.791	12.722	18.571	1.460	20.921	145.971

32% Geo2

AREA	10.061 cm <sup>2</sup>
HEIGHT	7.170 cm
LRC	0.189 kg/div

Deform dial reading (x10 <sup>-3</sup> )	Load Dial Reading	dl in (10 <sup>-3</sup> )	Unit strain dl/Lo	Area Cor. factor	Corrected Area	Total Load (kg)	Sample Unit Load (kg/cm <sup>2</sup> )	Strain (%)	Stress (kPa)
1	2	3	4	5	6	7	8	9	10
						0	0	0	0
25	21.000	0.025	0.003	0.997	10.096	3.959	0.392	0.349	39.217
50	30.000	0.050	0.007	0.993	10.132	5.656	0.558	0.697	55.828
75	37.000	0.075	0.010	0.990	10.167	6.976	0.686	1.046	68.612
100	44.000	0.100	0.014	0.986	10.203	8.296	0.813	1.395	81.306
125	49.000	0.125	0.017	0.983	10.239	9.238	0.902	1.743	90.225
150	54.000	0.150	0.021	0.979	10.276	10.181	0.991	2.092	99.079
175	59.000	0.175	0.024	0.976	10.313	11.124	1.079	2.441	107.867
200	63.000	0.200	0.028	0.972	10.350	11.878	1.148	2.789	114.768
225	66.500	0.225	0.031	0.969	10.387	12.538	1.207	3.138	120.710
250	69.000	0.250	0.035	0.965	10.424	13.009	1.248	3.487	124.797
275	72.000	0.275	0.038	0.962	10.462	13.575	1.298	3.835	129.752
300	74.500	0.300	0.042	0.958	10.500	14.046	1.338	4.184	133.771
325	76.500	0.325	0.045	0.955	10.539	14.423	1.369	4.533	136.862
350	78.500	0.350	0.049	0.951	10.577	14.800	1.399	4.881	139.927
375	80.500	0.375	0.052	0.948	10.616	15.177	1.430	5.230	142.966
400	82.000	0.400	0.056	0.944	10.655	15.460	1.451	5.579	145.095
425	84.000	0.425	0.059	0.941	10.695	15.837	1.481	5.927	148.085
450	85.500	0.450	0.063	0.937	10.735	16.120	1.502	6.276	150.170
475	86.500	0.475	0.066	0.934	10.775	16.309	1.514	6.625	151.361
500	88.000	0.500	0.070	0.930	10.815	16.592	1.534	6.974	153.411
525	89.000	0.525	0.073	0.927	10.856	16.780	1.546	7.322	154.573
550	90.000	0.550	0.077	0.923	10.897	16.969	1.557	7.671	155.722
575	91.000	0.575	0.080	0.920	10.938	17.157	1.569	8.020	156.857
600	92.000	0.600	0.084	0.916	10.980	17.346	1.580	8.368	157.980
625	93.000	0.625	0.087	0.913	11.022	17.534	1.591	8.717	159.089
650	94.000	0.650	0.091	0.909	11.064	17.723	1.602	9.066	160.186
675	95.000	0.675	0.094	0.906	11.106	17.911	1.613	9.414	161.269
700	96.000	0.700	0.098	0.902	11.149	18.100	1.623	9.763	162.339
725	96.500	0.725	0.101	0.899	11.193	18.194	1.626	10.112	162.554
750	97.000	0.750	0.105	0.895	11.236	18.288	1.628	10.460	162.763
775	98.000	0.775	0.108	0.892	11.280	18.477	1.638	10.809	163.801
800	98.500	0.800	0.112	0.888	11.324	18.571	1.640	11.158	163.993
825	99.000	0.825	0.115	0.885	11.369	18.665	1.642	11.506	164.178
850	99.500	0.850	0.119	0.881	11.414	18.760	1.644	11.855	164.357
875	100.500	0.875	0.122	0.878	11.459	18.948	1.654	12.204	165.352
900	101.000	0.900	0.126	0.874	11.505	19.043	1.655	12.552	165.515
925	101.500	0.925	0.129	0.871	11.551	19.137	1.657	12.901	165.671
950	102.000	0.950	0.132	0.868	11.598	19.231	1.658	13.250	165.821
975	102.500	0.975	0.136	0.864	11.644	19.325	1.660	13.598	165.964
1000	103.000	1.000	0.139	0.861	11.691	19.420	1.661	13.947	166.101
1025	103.500	1.025	0.143	0.857	11.739	19.514	1.662	14.296	166.231
1050	104.000	1.050	0.146	0.854	11.787	19.608	1.664	14.644	166.354
1075	104.500	1.075	0.150	0.850	11.835	19.702	1.665	14.993	166.471
1100	105.000	1.100	0.153	0.847	11.884	19.797	1.666	15.342	166.581
1125	105.500	1.125	0.157	0.843	11.933	19.891	1.667	15.690	166.685
1150	106.000	1.150	0.160	0.840	11.983	19.985	1.668	16.039	166.783
1175	106.500	1.175	0.164	0.836	12.033	20.080	1.669	16.388	166.874
1200	107.000	1.200	0.167	0.833	12.083	20.174	1.670	16.736	166.958
1225	107.500	1.225	0.171	0.829	12.134	20.268	1.670	17.085	167.036
1250	107.500	1.250	0.174	0.826	12.185	20.268	1.663	17.434	166.333
1275	108.000	1.275	0.178	0.822	12.237	20.362	1.664	17.782	166.401
1300	108.500	1.300	0.181	0.819	12.289	20.457	1.665	18.131	166.463
1325	109.000	1.325	0.185	0.815	12.342	20.551	1.665	18.480	166.517
1350	109.500	1.350	0.188	0.812	12.395	20.645	1.666	18.828	166.566
1375	110.000	1.375	0.192	0.808	12.448	20.739	1.666	19.177	166.608
1400	110.000	1.400	0.195	0.805	12.502	20.739	1.659	19.526	165.889
1425	110.500	1.425	0.199	0.801	12.556	20.834	1.659	19.874	165.921
1450	111.000	1.450	0.202	0.798	12.611	20.928	1.659	20.223	165.946
1475	111.200	1.475	0.206	0.794	12.667	20.966	1.655	20.572	165.519
1500	111.800	1.500	0.209	0.791	12.722	21.079	1.657	20.921	165.681



**LAMPIRAN 4**

**DATA HASIL PENGUJIAN  
TRIAKSIAL *CONSOLIDATED UNDRAINED (CU)***

DATA TRIAKSIAL KOMPRESI

**Sampel 1 ( $\sigma_3' = 50$  Kpa )**

Jenis Tanah : Soft Clay 28% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel ( $L_0$ ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{I}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	141.00	0.00		50.0000	3.9120
0.25	25.0	4.800	0.0035	0.35	0.9965	1009.6076	47.5432	142.00	1.00	0.0210	64.8477	4.1720
0.50	27.0	5.184	0.0070	0.70	0.9930	1013.1526	51.1670	145.00	4.00	0.0782	63.0557	4.1440
0.75	29.0	5.568	0.0105	1.05	0.9895	1016.7226	54.7642	145.00	4.00	0.0730	64.2547	4.1629
1.00	31.5	6.048	0.0139	1.39	0.9861	1020.3178	59.2757	145.00	4.00	0.0675	65.7586	4.1860
1.25	33.0	6.336	0.0174	1.74	0.9826	1023.9385	61.8787	145.00	4.00	0.0646	66.6262	4.1991
1.50	34.5	6.624	0.0209	2.09	0.9791	1027.5850	64.4618	145.00	4.00	0.0621	67.4873	4.2119
1.75	36.0	6.912	0.0244	2.44	0.9756	1031.2576	67.0250	148.00	7.00	0.1044	65.3417	4.1796
2.00	36.0	6.912	0.0279	2.79	0.9721	1034.9565	66.7854	148.00	7.00	0.1048	65.2618	4.1784
2.25	36.0	6.912	0.0314	3.14	0.9686	1038.6820	66.5459	148.00	7.00	0.1052	65.1820	4.1772
2.50	37.0	7.104	0.0349	3.49	0.9651	1042.4345	68.1482	148.00	7.00	0.1027	65.7161	4.1853
2.75	37.5	7.200	0.0384	3.84	0.9616	1046.2142	68.8196	148.00	7.00	0.1017	65.9399	4.1887
3.00	38.0	7.296	0.0418	4.18	0.9582	1050.0213	69.4843	148.00	7.00	0.1007	66.1614	4.1921
3.25	38.2	7.334	0.0453	4.53	0.9547	1053.8563	69.5958	148.00	7.00	0.1006	66.1986	4.1927
3.50	38.5	7.392	0.0488	4.88	0.9512	1057.7195	69.8862	148.00	7.00	0.1002	66.2954	4.1941
3.75	38.5	7.392	0.0523	5.23	0.9477	1061.6110	69.6300	150.00	9.00	0.1293	64.2100	4.1622
4.00	38.0	7.296	0.0558	5.58	0.9442	1065.5313	68.4729	151.00	10.00	0.1460	62.8243	4.1403
4.25	37.5	7.200	0.0593	5.93	0.9407	1069.4806	67.3224	151.00	10.00	0.1485	62.4408	4.1342
4.50	37.5	7.200	0.0628	6.28	0.9372	1073.4593	67.0729	151.00	10.00	0.1491	62.3576	4.1329
4.75	38.0	7.296	0.0662	6.62	0.9338	1077.4678	67.7143	152.00	11.00	0.1624	61.5714	4.1202
5.00	38.2	7.334	0.0697	6.97	0.9303	1081.5062	67.8165	152.00	11.00	0.1622	61.6055	4.1208
5.25	38.5	7.392	0.0732	7.32	0.9268	1085.5751	68.0929	152.00	11.00	0.1615	61.6976	4.1222
5.50	39.0	7.488	0.0767	7.67	0.9233	1089.6747	68.7178	152.00	11.00	0.1601	61.9059	4.1256
5.75	39.0	7.488	0.0802	8.02	0.9198	1093.8054	68.4582	151.00	10.00	0.1461	62.8194	4.1403
6.00	39.0	7.488	0.0837	8.37	0.9163	1097.9675	68.1987	151.00	10.00	0.1466	62.7329	4.1389
6.25	39.0	7.488	0.0872	8.72	0.9128	1102.1614	67.9392	151.00	10.00	0.1472	62.6464	4.1375
6.50	38.0	7.296	0.0907	9.07	0.9093	1106.3875	65.9443	151.00	10.00	0.1516	61.9814	4.1268
6.75	37.0	7.104	0.0941	9.41	0.9059	1110.6461	63.9628	150.00	9.00	0.1407	62.3209	4.1323
7.00	36.0	6.912	0.0976	9.76	0.9024	1114.9377	61.9945	150.00	9.00	0.1452	61.6648	4.1217
7.25	35.5	6.816	0.1011	10.11	0.8989	1119.2625	60.8972	148.00	7.00	0.1149	63.2991	4.1479
7.50	35.5	6.816	0.1046	10.46	0.8954	1123.6210	60.6610	148.00	7.00	0.1154	63.2203	4.1466
7.75	35.5	6.816	0.1081	10.81	0.8919	1128.0136	60.4248	148.00	7.00	0.1158	63.1416	4.1454
8.00	35.0	6.720	0.1116	11.16	0.8884	1132.4406	59.3409	146.00	5.00	0.0843	64.7803	4.1710
8.25	34.5	6.624	0.1151	11.51	0.8849	1136.9025	58.2636	146.00	5.00	0.0858	64.4212	4.1654
8.50	34.0	6.528	0.1185	11.85	0.8815	1141.3998	57.1929	146.00	5.00	0.0874	64.0643	4.1599
8.75	33.2	6.374	0.1220	12.20	0.8780	1145.9327	55.6263	146.00	5.00	0.0899	63.5421	4.1517
9.00	32.5	6.240	0.1255	12.55	0.8745	1150.5019	54.2372	146.00	5.00	0.0922	63.0791	4.1444
9.25	31.5	6.048	0.1290	12.90	0.8710	1155.1076	52.3588	146.00	5.00	0.0955	62.4529	4.1344
9.50	31.0	5.952	0.1325	13.25	0.8675	1159.7503	51.3214	146.00	5.00	0.0974	62.1071	4.1289
9.75	31.0	5.952	0.1360	13.60	0.8640	1164.4305	51.1151	146.00	5.00	0.0978	62.0384	4.1278
10.00	31.0	5.952	0.1395	13.95	0.8605	1169.1486	50.9088	144.00	3.00	0.0589	63.9696	4.1584
10.25	30.8	5.914	0.1430	14.30	0.8570	1173.9051	50.3755	144.00	3.00	0.0596	63.7918	4.1556
10.50	30.8	5.914	0.1464	14.64	0.8536	1178.7004	50.1705	144.00	3.00	0.0598	63.7235	4.1546
10.75	30.8	5.914	0.1499	14.99	0.8501	1183.5351	49.9656	143.00	2.00	0.0400	64.6552	4.1691
11.00	30.8	5.914	0.1534	15.34	0.8466	1188.4097	49.7606	143.00	2.00	0.0402	64.5869	4.1680
11.25	30.5	5.856	0.1569	15.69	0.8431	1193.3245	49.0730	142.00	1.00	0.0204	65.3577	4.1799
11.50	30.5	5.856	0.1604	16.04	0.8396	1198.2802	48.8700	142.00	1.00	0.0205	65.2900	4.1788
11.75	29.0	5.568	0.1639	16.39	0.8361	1203.2772	46.2736	142.00	1.00	0.0216	64.4245	4.1655
12.00	29.0	5.568	0.1674	16.74	0.8326	1208.3160	46.0807	142.00	1.00	0.0217	64.3602	4.1645
12.25	29.0	5.568	0.1709	17.09	0.8291	1213.3973	45.8877	142.00	1.00	0.0218	64.2959	4.1635
12.50	29.0	5.568	0.1743	17.43	0.8257	1218.5214	45.6947	142.00	1.00	0.0219	64.2316	4.1625
12.75	28.2	5.414	0.1778	17.78	0.8222	1223.6890	44.2465	142.00	1.00	0.0226	63.7488	4.1550
13.00	27.0	5.184	0.1813	18.13	0.8187	1228.9006	42.1840	142.00	1.00	0.0237	63.0613	4.1441
13.25	27.0	5.184	0.1848	18.48	0.8152	1234.1568	42.0044	142.00	1.00	0.0238	63.0015	4.1432
13.50	25.5	4.896	0.1883	18.83	0.8117	1239.4582	39.5011	142.00	1.00	0.0253	62.1670	4.1298
13.75	24.0	4.608	0.1918	19.18	0.8082	1244.8053	37.0178	142.00	1.00	0.0270	61.3393	4.1164
14.00	23.0	4.416	0.1953	19.53	0.8047	1250.1987	35.3224	142.00	1.00	0.0283	60.7741	4.1072
14.25	23.0	4.416	0.1987	19.87	0.8013	1255.6391	35.1693	142.00	1.00	0.0284	60.7231	4.1063
14.50	23.0	4.416	0.2022	20.22	0.7978	1261.1270	35.0163	142.00	1.00	0.0286	60.6721	4.1055
14.75	23.0	4.416	0.2057	20.57	0.7943	1266.6632	34.8633	142.00	1.00	0.0287	60.6211	4.1046
15.00	23.0	4.416	0.2092	20.92	0.7908	1272.2481	34.7102	142.00	1.00	0.0288	60.5701	4.1038

**Sampel 2 (  $\sigma_3' = 100 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 28% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure $U$ (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	135.00	0.00		100.0000	4.6052
0.25	43.0	8.256	0.0035	0.35	0.9965	1009.6076	81.7743	150.00	15.00	0.1834	112.2581	4.7208
0.50	50.0	9.600	0.0070	0.70	0.9930	1013.1526	94.7537	150.00	15.00	0.1583	116.5846	4.7586
0.75	54.0	10.368	0.0105	1.05	0.9895	1016.7226	101.9747	149.00	14.00	0.1373	119.9916	4.7874
1.00	57.5	11.040	0.0139	1.39	0.9861	1020.3178	108.2016	149.00	14.00	0.1294	122.0672	4.8046
1.25	61.0	11.712	0.0174	1.74	0.9826	1023.9385	114.3819	149.00	14.00	0.1224	124.1273	4.8213
1.50	62.5	12.000	0.0209	2.09	0.9791	1027.5850	116.7787	149.00	14.00	0.1199	124.9262	4.8277
1.75	65.2	12.518	0.0244	2.44	0.9756	1031.2576	121.3897	148.00	13.00	0.1071	127.4632	4.8478
2.00	67.0	12.864	0.0279	2.79	0.9721	1034.9565	124.2951	148.00	13.00	0.1046	128.4317	4.8554
2.25	68.7	13.190	0.0314	3.14	0.9686	1038.6820	126.9917	148.00	13.00	0.1024	129.3306	4.8624
2.50	70.0	13.440	0.0349	3.49	0.9651	1042.4345	128.9290	148.00	13.00	0.1008	129.9763	4.8674
2.75	71.2	13.670	0.0384	3.84	0.9616	1046.2142	130.6654	145.00	10.00	0.0765	133.5551	4.8945
3.00	72.1	13.843	0.0418	4.18	0.9582	1050.0213	131.8373	145.00	10.00	0.0759	133.9458	4.8974
3.25	73.8	14.170	0.0453	4.53	0.9547	1053.8563	134.4548	145.00	10.00	0.0744	134.8183	4.9039
3.50	76.0	14.592	0.0488	4.88	0.9512	1057.7195	137.9572	145.00	10.00	0.0725	135.9857	4.9125
3.75	77.2	14.822	0.0523	5.23	0.9477	1061.6110	139.6218	145.00	10.00	0.0716	136.5406	4.9166
4.00	78.0	14.976	0.0558	5.58	0.9442	1065.5313	140.5496	145.00	10.00	0.0711	136.8499	4.9189
4.25	79.8	15.322	0.0593	5.93	0.9407	1069.4806	143.2621	145.00	10.00	0.0698	137.7540	4.9255
4.50	81.8	15.706	0.0628	6.28	0.9372	1073.4593	146.3083	145.00	10.00	0.0683	138.7694	4.9328
4.75	82.0	15.744	0.0662	6.62	0.9338	1077.4678	146.1204	145.00	10.00	0.0684	138.7068	4.9324
5.00	82.0	15.744	0.0697	6.97	0.9303	1081.5062	145.5747	143.00	8.00	0.0550	140.5249	4.9454
5.25	84.2	16.166	0.0732	7.32	0.9268	1085.5751	148.9201	143.00	8.00	0.0537	141.6400	4.9533
5.50	87.0	16.704	0.0767	7.67	0.9233	1089.6747	153.2935	143.00	8.00	0.0522	143.0978	4.9635
5.75	89.2	17.126	0.0802	8.02	0.9198	1093.8054	156.5763	143.00	8.00	0.0511	144.1921	4.9711
6.00	90.5	17.376	0.0837	8.37	0.9163	1097.9675	158.2560	141.00	6.00	0.0379	146.7520	4.9887
6.25	91.5	17.568	0.0872	8.72	0.9128	1102.1614	159.3959	141.00	6.00	0.0376	147.1320	4.9913
6.50	92.0	17.664	0.0907	9.07	0.9093	1106.3875	159.6547	141.00	6.00	0.0376	147.2182	4.9919
6.75	92.2	17.702	0.0941	9.41	0.9059	1110.6461	159.3883	141.00	6.00	0.0376	147.1294	4.9913
7.00	94.0	18.048	0.0976	9.76	0.9024	1114.9377	161.8745	141.00	6.00	0.0371	147.9582	4.9969
7.25	94.0	18.048	0.1011	10.11	0.8989	1119.2625	161.2490	141.00	6.00	0.0372	147.7497	4.9955
7.50	96.0	18.432	0.1046	10.46	0.8954	1123.6210	164.0411	141.00	6.00	0.0366	148.6804	5.0018
7.75	97.5	18.720	0.1081	10.81	0.8919	1128.0136	165.9555	141.00	6.00	0.0362	149.3183	5.0061
8.00	99.0	19.008	0.1116	11.16	0.8884	1132.4406	167.8499	141.00	6.00	0.0357	149.9500	5.0103
8.25	100.2	19.238	0.1151	11.51	0.8849	1136.9025	169.2177	141.00	6.00	0.0355	150.4059	5.0133
8.50	101.0	19.392	0.1185	11.85	0.8815	1141.3998	169.8966	141.00	6.00	0.0353	150.6322	5.0148
8.75	101.8	19.546	0.1220	12.20	0.8780	1145.9327	170.5650	141.00	6.00	0.0352	150.8550	5.0163
9.00	102.0	19.584	0.1255	12.55	0.8745	1150.5019	170.2214	141.00	6.00	0.0352	150.7405	5.0156
9.25	102.2	19.622	0.1290	12.90	0.8710	1155.1076	169.8751	141.00	6.00	0.0353	150.6250	5.0148
9.50	104.5	20.064	0.1325	13.25	0.8675	1159.7503	173.0028	141.00	6.00	0.0347	151.6676	5.0217
9.75	105.5	20.256	0.1360	13.60	0.8640	1164.4305	173.9563	141.00	6.00	0.0345	151.9854	5.0238
10.00	107.0	20.544	0.1395	13.95	0.8605	1169.1486	175.7176	140.00	5.00	0.0285	153.5725	5.0342
10.25	108.5	20.832	0.1430	14.30	0.8570	1173.9051	177.4590	139.00	4.00	0.0225	155.1530	5.0444
10.50	109.5	21.024	0.1464	14.64	0.8536	1178.7004	178.3659	139.00	4.00	0.0224	155.4553	5.0464
10.75	110.0	21.120	0.1499	14.99	0.8501	1183.5351	178.4484	139.00	4.00	0.0224	155.4828	5.0465
11.00	110.2	21.158	0.1534	15.34	0.8466	1188.4097	178.0396	139.00	4.00	0.0225	155.3465	5.0457
11.25	110.5	21.216	0.1569	15.69	0.8431	1193.3245	177.7890	139.00	4.00	0.0225	155.2630	5.0451
11.50	110.8	21.274	0.1604	16.04	0.8396	1198.2802	177.5344	138.00	3.00	0.0169	156.1781	5.0510
11.75	111.8	21.466	0.1639	16.39	0.8361	1203.2772	178.3928	138.00	3.00	0.0168	156.4643	5.0528
12.00	112.2	21.542	0.1674	16.74	0.8326	1208.3160	178.2845	138.00	3.00	0.0168	156.4282	5.0526
12.25	113.2	21.734	0.1709	17.09	0.8291	1213.3973	179.1202	138.00	3.00	0.0167	156.7067	5.0544
12.50	114.8	22.042	0.1743	17.43	0.8257	1218.5214	180.8881	137.00	2.00	0.0111	158.2960	5.0645
12.75	115.5	22.176	0.1778	17.78	0.8222	1223.6890	181.2225	137.00	2.00	0.0110	158.4075	5.0652
13.00	116.0	22.272	0.1813	18.13	0.8187	1228.9006	181.2352	137.00	2.00	0.0110	158.4117	5.0652
13.25	116.2	22.310	0.1848	18.48	0.8152	1234.1568	180.7744	137.00	2.00	0.0111	158.2581	5.0642
13.50	116.5	22.368	0.1883	18.83	0.8117	1239.4582	180.4660	137.00	2.00	0.0111	158.1553	5.0636
13.75	117.2	22.502	0.1918	19.18	0.8082	1244.8053	180.7704	137.00	2.00	0.0111	158.2568	5.0642
14.00	118.5	22.752	0.1953	19.53	0.8047	1250.1987	181.9871	137.00	2.00	0.0110	158.6624	5.0668
14.25	119.5	22.944	0.1987	19.87	0.8013	1255.6391	182.7277	136.00	1.00	0.0055	159.9092	5.0746
14.50	120.0	23.040	0.2022	20.22	0.7978	1261.1270	182.6937	136.00	1.00	0.0055	159.8979	5.0745
14.75	120.0	23.040	0.2057	20.57	0.7943	1266.6632	181.8952	136.00	1.00	0.0055	159.6317	5.0729
15.00	120.5	23.136	0.2092	20.92	0.7908	1272.2481	181.8513	136.00	1.00	0.0055	159.6171	5.0728



**Sampel 3 (  $\sigma_3' = 150 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 28% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A} / \Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	150.00	0.00		150.0000	5.0106
0.25	32.5	6.240	0.0035	0.35	0.9965	1009.6076	61.8062	156.00	6.00	0.0971	164.6021	5.1035
0.50	40.5	7.776	0.0070	0.70	0.9930	1013.1526	76.7505	158.50	8.50	0.1107	167.0835	5.1185
0.75	47.5	9.120	0.0105	1.05	0.9895	1016.7226	89.7000	160.00	10.00	0.1115	169.9000	5.1352
1.00	53.5	10.272	0.0139	1.39	0.9861	1020.3178	100.6745	161.00	11.00	0.1093	172.5582	5.1507
1.25	57.0	10.944	0.0174	1.74	0.9826	1023.9385	106.8814	162.00	12.00	0.1123	173.6271	5.1569
1.50	61.5	11.808	0.0209	2.09	0.9791	1027.5850	114.9102	163.00	13.00	0.1131	175.3034	5.1665
1.75	65.0	12.480	0.0244	2.44	0.9756	1031.2576	121.0173	165.00	15.00	0.1239	175.3391	5.1667
2.00	67.5	12.960	0.0279	2.79	0.9721	1034.9565	125.2227	168.00	18.00	0.1437	173.7409	5.1576
2.25	71.5	13.728	0.0314	3.14	0.9686	1038.6820	132.1675	168.50	18.50	0.1400	175.5558	5.1680
2.50	74.0	14.208	0.0349	3.49	0.9651	1042.4345	136.2963	168.50	18.50	0.1357	176.9321	5.1758
2.75	75.5	14.496	0.0384	3.84	0.9616	1046.2142	138.5567	169.50	19.50	0.1407	176.6856	5.1744
3.00	80.0	15.360	0.0418	4.18	0.9582	1050.0213	146.2827	170.00	20.00	0.1367	178.7609	5.1860
3.25	83.0	15.936	0.0453	4.53	0.9547	1053.8563	151.2161	170.00	20.00	0.1323	180.4054	5.1952
3.50	85.0	16.320	0.0488	4.88	0.9512	1057.7195	154.2942	170.00	20.00	0.1296	181.4314	5.2009
3.75	85.5	16.416	0.0523	5.23	0.9477	1061.6110	154.6329	170.00	20.00	0.1293	181.5443	5.2015
4.00	86.0	16.512	0.0558	5.58	0.9442	1065.5313	154.9650	170.00	20.00	0.1291	181.6550	5.2021
4.25	89.0	17.088	0.0593	5.93	0.9407	1069.4806	159.7785	170.00	20.00	0.1252	183.2595	5.2109
4.50	91.5	17.568	0.0628	6.28	0.9372	1073.4593	163.6578	170.00	20.00	0.1222	184.5526	5.2179
4.75	93.5	17.952	0.0662	6.62	0.9338	1077.4678	166.6129	170.00	20.00	0.1200	185.5376	5.2233
5.00	95.5	18.336	0.0697	6.97	0.9303	1081.5062	169.5413	170.00	20.00	0.1180	186.5138	5.2285
5.25	97.0	18.624	0.0732	7.32	0.9268	1085.5751	171.5588	170.00	20.00	0.1166	187.1863	5.2321
5.50	100.0	19.200	0.0767	7.67	0.9233	1089.6747	176.1994	170.00	20.00	0.1135	188.7331	5.2403
5.75	101.0	19.392	0.0802	8.02	0.9198	1093.8054	177.2893	170.00	20.00	0.1128	189.0964	5.2423
6.00	102.0	19.584	0.0837	8.37	0.9163	1097.9675	178.3659	170.00	20.00	0.1121	189.4553	5.2442
6.25	102.5	19.680	0.0872	8.72	0.9128	1102.1614	178.5582	170.00	20.00	0.1120	189.5194	5.2445
6.50	103.0	19.776	0.0907	9.07	0.9093	1106.3875	178.7439	170.00	20.00	0.1119	189.5813	5.2448
6.75	104.0	19.968	0.0941	9.41	0.9059	1110.6461	179.7872	170.00	20.00	0.1112	189.9291	5.2467
7.00	105.0	20.160	0.0976	9.76	0.9024	1114.9377	180.8173	170.00	20.00	0.1106	190.2724	5.2485
7.25	105.5	20.256	0.1011	10.11	0.8989	1119.2625	180.9763	170.00	20.00	0.1105	190.3254	5.2487
7.50	107.0	20.544	0.1046	10.46	0.8954	1123.6210	182.8375	170.00	20.00	0.1094	190.9458	5.2520
7.75	108.0	20.736	0.1081	10.81	0.8919	1128.0136	183.8276	170.00	20.00	0.1088	191.2759	5.2537
8.00	109.0	20.928	0.1116	11.16	0.8884	1132.4406	184.8044	169.00	19.00	0.1028	192.6015	5.2606
8.25	109.0	20.928	0.1151	11.51	0.8849	1136.9025	184.0791	169.00	19.00	0.1032	192.3597	5.2594
8.50	109.5	21.024	0.1185	11.85	0.8815	1141.3998	184.1949	169.00	19.00	0.1032	192.3983	5.2596
8.75	109.5	21.024	0.1220	12.20	0.8780	1145.9327	183.4663	168.00	18.00	0.0981	193.1554	5.2635
9.00	110.0	21.120	0.1255	12.55	0.8745	1150.5019	183.5721	168.00	18.00	0.0981	193.1907	5.2637
9.25	110.2	21.158	0.1290	12.90	0.8710	1155.1076	183.1726	168.00	18.00	0.0983	193.0575	5.2630
9.50	111.0	21.312	0.1325	13.25	0.8675	1159.7503	183.7637	166.00	16.00	0.0871	195.2546	5.2743
9.75	112.5	21.600	0.1360	13.60	0.8640	1164.4305	185.4984	166.00	16.00	0.0863	195.8328	5.2773
10.00	113.0	21.696	0.1395	13.95	0.8605	1169.1486	185.5709	165.00	15.00	0.0808	196.8570	5.2825
10.25	113.5	21.792	0.1430	14.30	0.8570	1173.9051	185.6368	165.00	15.00	0.0808	196.8789	5.2826
10.50	113.5	21.792	0.1464	14.64	0.8536	1178.7004	184.8816	165.00	15.00	0.0811	196.6272	5.2813
10.75	113.5	21.792	0.1499	14.99	0.8501	1183.5351	184.1263	165.00	15.00	0.0815	196.3754	5.2800
11.00	113.5	21.792	0.1534	15.34	0.8466	1188.4097	183.3711	164.00	14.00	0.0763	197.1237	5.2838
11.25	113.8	21.850	0.1569	15.69	0.8431	1193.3245	183.0986	164.00	14.00	0.0765	197.0329	5.2834
11.50	114.0	21.888	0.1604	16.04	0.8396	1198.2802	182.6618	164.00	14.00	0.0766	196.8873	5.2826
11.75	114.0	21.888	0.1639	16.39	0.8361	1203.2772	181.9032	163.00	13.00	0.0715	197.6344	5.2864
12.00	115.0	22.080	0.1674	16.74	0.8326	1208.3160	182.7337	163.00	13.00	0.0711	197.9112	5.2878
12.25	115.5	22.176	0.1709	17.09	0.8291	1213.3973	182.7596	163.00	13.00	0.0711	197.9199	5.2879
12.50	115.8	22.234	0.1743	17.43	0.8257	1218.5214	182.4638	162.00	12.00	0.0658	198.8213	5.2924
12.75	115.5	22.176	0.1778	17.78	0.8222	1223.6890	181.2225	162.00	12.00	0.0662	198.4075	5.2903
13.00	115.2	22.118	0.1813	18.13	0.8187	1228.9006	179.9853	162.00	12.00	0.0667	197.9951	5.2882
13.25	115.2	22.118	0.1848	18.48	0.8152	1234.1568	179.2187	161.00	11.00	0.0614	198.7396	5.2920
13.50	115.2	22.118	0.1883	18.83	0.8117	1239.4582	178.4522	161.00	11.00	0.0616	198.4841	5.2907
13.75	115.5	22.176	0.1918	19.18	0.8082	1244.8053	178.1483	161.00	11.00	0.0617	198.3828	5.2902
14.00	115.2	22.118	0.1953	19.53	0.8047	1250.1987	176.9191	160.00	10.00	0.0565	198.9730	5.2932
14.25	115.2	22.118	0.1987	19.87	0.8013	1255.6391	176.1525	160.00	10.00	0.0568	198.7175	5.2919
14.50	115.5	22.176	0.2022	20.22	0.7978	1261.1270	175.8427	160.00	10.00	0.0569	198.6142	5.2914
14.75	115.5	22.176	0.2057	20.57	0.7943	1266.6632	175.0742	160.00	10.00	0.0571	198.3581	5.2901
15.00	115.5	22.176	0.2092	20.92	0.7908	1272.2481	174.3056	160.00	10.00	0.0574	198.1019	5.2888

DATA TRIAKSIAL KOMPRESI

**Sampel 1 (  $\sigma_3' = 50$  Kpa )**

Jenis Tanah : Soft Clay 28% With 1 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	90.00	0.00		50.0000	3.9120
0.25	9.0	1.728	0.0035	0.35	0.9965	1009.6076	17.1156	93.00	3.00	0.1753	52.7052	3.9647
0.50	37.5	7.200	0.0070	0.70	0.9930	1013.1526	71.0653	93.00	3.00	0.0422	70.6884	4.2583
0.75	50.0	9.600	0.0105	1.05	0.9895	1016.7226	94.4210	93.00	3.00	0.0318	78.4737	4.3628
1.00	58.0	11.136	0.0139	1.39	0.9861	1020.3178	109.1425	95.00	5.00	0.0458	81.3808	4.3991
1.25	64.0	12.288	0.0174	1.74	0.9826	1023.9385	120.0072	95.00	5.00	0.0417	85.0024	4.4427
1.50	68.5	13.152	0.0209	2.09	0.9791	1027.5850	127.9894	95.00	5.00	0.0391	87.6631	4.4735
1.75	73.0	14.016	0.0244	2.44	0.9756	1031.2576	135.9117	96.00	6.00	0.0441	89.3039	4.4920
2.00	76.5	14.688	0.0279	2.79	0.9721	1034.9565	141.9190	96.00	6.00	0.0423	91.3063	4.5142
2.25	79.0	15.168	0.0314	3.14	0.9686	1038.6820	146.0312	96.00	6.00	0.0411	92.6771	4.5291
2.50	81.5	15.648	0.0349	3.49	0.9651	1042.4345	150.1102	99.00	9.00	0.0600	91.0367	4.5113
2.75	84.0	16.128	0.0384	3.84	0.9616	1046.2142	154.1558	99.00	9.00	0.0584	92.3853	4.5260
3.00	86.5	16.608	0.0418	4.18	0.9582	1050.0213	158.1682	99.00	9.00	0.0569	93.7227	4.5403
3.25	88.0	16.896	0.0453	4.53	0.9547	1053.8563	160.3255	101.00	11.00	0.0686	92.4418	4.5266
3.50	91.0	17.472	0.0488	4.88	0.9512	1057.7195	165.1856	103.00	13.00	0.0787	92.0619	4.5225
3.75	94.0	18.048	0.0523	5.23	0.9477	1061.6110	170.0058	107.00	17.00	0.1000	89.6686	4.4961
4.00	96.5	18.528	0.0558	5.58	0.9442	1065.5313	173.8851	110.00	20.00	0.1150	87.9617	4.4769
4.25	98.5	18.912	0.0593	5.93	0.9407	1069.4806	176.8335	111.00	21.00	0.1188	87.9445	4.4767
4.50	99.0	19.008	0.0628	6.28	0.9372	1073.4593	177.0724	112.00	22.00	0.1242	87.0241	4.4662
4.75	101.0	19.392	0.0662	6.62	0.9338	1077.4678	179.9775	113.00	23.00	0.1278	86.9925	4.4658
5.00	102.5	19.680	0.0697	6.97	0.9303	1081.5062	181.9684	114.00	24.00	0.1319	86.6561	4.4619
5.25	103.5	19.872	0.0732	7.32	0.9268	1085.5751	183.0550	114.00	24.00	0.1311	87.0183	4.4661
5.50	104.5	20.064	0.0767	7.67	0.9233	1089.6747	184.1283	115.00	25.00	0.1358	86.3761	4.4587
5.75	105.0	20.160	0.0802	8.02	0.9198	1093.8054	184.3107	115.00	25.00	0.1356	86.4369	4.4594
6.00	106.5	20.448	0.0837	8.37	0.9163	1097.9675	186.2350	116.00	26.00	0.1396	86.0783	4.4553
6.25	107.0	20.544	0.0872	8.72	0.9128	1102.1614	186.3974	117.00	27.00	0.1449	85.1325	4.4442
6.50	108.0	20.736	0.0907	9.07	0.9093	1106.3875	187.4208	117.00	27.00	0.1441	85.4736	4.4482
6.75	108.2	20.774	0.0941	9.41	0.9059	1110.6461	187.0479	117.00	27.00	0.1443	85.3493	4.4468
7.00	108.2	20.774	0.0976	9.76	0.9024	1114.9377	186.3279	117.00	27.00	0.1449	85.1093	4.4439
7.25	108.5	20.832	0.1011	10.11	0.8989	1119.2625	186.1226	116.00	26.00	0.1397	86.0409	4.4548
7.50	108.7	20.870	0.1046	10.46	0.8954	1123.6210	185.7423	116.00	26.00	0.1400	85.9141	4.4533
7.75	109.0	20.928	0.1081	10.81	0.8919	1128.0136	185.5297	116.00	26.00	0.1401	85.8432	4.4525
8.00	109.0	20.928	0.1116	11.16	0.8884	1132.4406	184.8044	116.00	26.00	0.1407	85.6015	4.4497
8.25	109.2	20.966	0.1151	11.51	0.8849	1136.9025	184.4169	116.00	26.00	0.1410	85.4723	4.4482
8.50	110.0	21.120	0.1185	11.85	0.8815	1141.3998	185.0360	115.00	25.00	0.1351	86.6787	4.4622
8.75	111.0	21.312	0.1220	12.20	0.8780	1145.9327	185.9795	115.00	25.00	0.1344	86.9932	4.4658
9.00	111.2	21.350	0.1255	12.55	0.8745	1150.5019	185.5747	115.00	25.00	0.1347	86.8582	4.4643
9.25	111.2	21.350	0.1290	12.90	0.8710	1155.1076	184.8347	114.00	24.00	0.1298	87.6116	4.4729
9.50	111.2	21.350	0.1325	13.25	0.8675	1159.7503	184.0948	114.00	24.00	0.1304	87.3649	4.4701
9.75	111.2	21.350	0.1360	13.60	0.8640	1164.4305	183.3549	114.00	24.00	0.1309	87.1183	4.4673
10.00	111.5	21.408	0.1395	13.95	0.8605	1169.1486	183.1076	113.00	23.00	0.1256	88.0359	4.4777
10.25	111.5	21.408	0.1430	14.30	0.8570	1173.9051	182.3657	113.00	23.00	0.1261	87.7886	4.4749
10.50	111.8	21.466	0.1464	14.64	0.8536	1178.7004	182.1124	113.00	23.00	0.1263	87.7041	4.4740
10.75	111.8	21.466	0.1499	14.99	0.8501	1183.5351	181.3685	112.00	22.00	0.1213	88.4562	4.4825
11.00	112.2	21.542	0.1534	15.34	0.8466	1188.4097	181.2708	112.00	22.00	0.1214	88.4236	4.4821
11.25	112.2	21.542	0.1569	15.69	0.8431	1193.3245	180.5242	111.00	21.00	0.1163	89.1747	4.4906
11.50	112.2	21.542	0.1604	16.04	0.8396	1198.2802	179.7777	111.00	21.00	0.1168	88.9259	4.4878
11.75	112.2	21.542	0.1639	16.39	0.8361	1203.2772	179.0311	111.00	21.00	0.1173	88.6770	4.4850
12.00	112.2	21.542	0.1674	16.74	0.8326	1208.3160	178.2845	111.00	21.00	0.1178	88.4282	4.4822
12.25	112.2	21.542	0.1709	17.09	0.8291	1213.3973	177.5379	111.00	21.00	0.1183	88.1793	4.4794
12.50	112.5	21.600	0.1743	17.43	0.8257	1218.5214	177.2640	111.00	21.00	0.1185	88.0880	4.4783
12.75	112.5	21.600	0.1778	17.78	0.8222	1223.6890	176.5154	111.00	21.00	0.1190	87.8385	4.4755
13.00	113.0	21.696	0.1813	18.13	0.8187	1228.9006	176.5480	110.00	20.00	0.1133	88.8493	4.4869
13.25	113.0	21.696	0.1848	18.48	0.8152	1234.1568	175.7961	110.00	20.00	0.1138	88.5987	4.4841
13.50	113.0	21.696	0.1883	18.83	0.8117	1239.4582	175.0442	110.00	20.00	0.1143	88.3481	4.4813
13.75	113.2	21.734	0.1918	19.18	0.8082	1244.8053	174.6008	110.00	20.00	0.1145	88.2003	4.4796
14.00	113.5	21.792	0.1953	19.53	0.8047	1250.1987	174.3083	110.00	20.00	0.1147	88.1028	4.4785
14.25	113.5	21.792	0.1987	19.87	0.8013	1255.6391	173.5531	110.00	20.00	0.1152	87.8510	4.4756
14.50	113.5	21.792	0.2022	20.22	0.7978	1261.1270	172.7978	110.00	20.00	0.1157	87.5993	4.4728
14.75	113.5	21.792	0.2057	20.57	0.7943	1266.6632	172.0426	110.00	20.00	0.1163	87.3475	4.4699
15.00	113.5	21.792	0.2092	20.92	0.7908	1272.2481	171.2873	110.00	20.00	0.1168	87.0958	4.4670

**Sampel 2 (  $\sigma_3' = 100 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 28% With 1 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	142.00	0.00		100.0000	4.6052
0.25	58.0	11.136	0.0035	0.35	0.9965	1009.6076	110.3003	145.00	3.00	0.0272	133.7668	4.8961
0.50	78.0	14.976	0.0070	0.70	0.9930	1013.1526	147.8158	149.00	7.00	0.0474	142.2719	4.9577
0.75	88.5	16.992	0.0105	1.05	0.9895	1016.7226	167.1252	150.00	8.00	0.0479	147.7084	4.9952
1.00	98.0	18.816	0.0139	1.39	0.9861	1020.3178	184.4131	152.00	10.00	0.0542	151.4710	5.0204
1.25	105.0	20.160	0.0174	1.74	0.9826	1023.9385	196.8868	155.00	13.00	0.0660	152.6289	5.0280
1.50	111.5	21.408	0.0209	2.09	0.9791	1027.5850	208.3331	157.00	15.00	0.0720	154.4444	5.0398
1.75	116.0	22.272	0.0244	2.44	0.9756	1031.2576	215.9693	159.00	17.00	0.0787	154.9898	5.0434
2.00	121.0	23.232	0.0279	2.79	0.9721	1034.9565	224.4732	160.00	18.00	0.0802	156.8244	5.0551
2.25	125.0	24.000	0.0314	3.14	0.9686	1038.6820	231.0621	161.00	19.00	0.0822	158.0207	5.0627
2.50	125.8	24.154	0.0349	3.49	0.9651	1042.4345	231.7038	162.00	20.00	0.0863	157.2346	5.0577
2.75	129.0	24.768	0.0384	3.84	0.9616	1046.2142	236.7393	163.00	21.00	0.0887	157.9131	5.0620
3.00	130.5	25.056	0.0418	4.18	0.9582	1050.0213	238.6237	164.00	22.00	0.0922	157.5412	5.0597
3.25	133.0	25.536	0.0453	4.53	0.9547	1053.8563	242.3101	164.00	22.00	0.0908	158.7700	5.0675
3.50	134.2	25.766	0.0488	4.88	0.9512	1057.7195	243.6033	165.00	23.00	0.0944	158.2011	5.0639
3.75	135.8	26.074	0.0523	5.23	0.9477	1061.6110	245.6041	165.00	23.00	0.0936	158.8680	5.0681
4.00	136.5	26.208	0.0558	5.58	0.9442	1065.5313	245.9618	165.00	23.00	0.0935	158.9873	5.0688
4.25	138.0	26.496	0.0593	5.93	0.9407	1069.4806	247.7464	165.00	23.00	0.0928	159.5821	5.0726
4.50	139.5	26.784	0.0628	6.28	0.9372	1073.4593	249.5111	165.00	23.00	0.0922	160.1704	5.0762
4.75	139.7	26.822	0.0662	6.62	0.9338	1077.4678	248.9392	165.00	23.00	0.0924	159.9797	5.0750
5.00	140.0	26.880	0.0697	6.97	0.9303	1081.5062	248.5423	165.00	23.00	0.0925	159.8474	5.0742
5.25	140.4	26.957	0.0732	7.32	0.9268	1085.5751	248.3181	165.00	23.00	0.0926	159.7727	5.0738
5.50	141.0	27.072	0.0767	7.67	0.9233	1089.6747	248.4411	165.00	23.00	0.0926	159.8137	5.0740
5.75	141.5	27.168	0.0802	8.02	0.9198	1093.8054	248.3806	165.00	23.00	0.0926	159.7935	5.0739
6.00	141.8	27.226	0.0837	8.37	0.9163	1097.9675	247.9636	165.00	23.00	0.0928	159.6545	5.0730
6.25	141.8	27.226	0.0872	8.72	0.9128	1102.1614	247.0201	165.00	23.00	0.0931	159.3400	5.0710
6.50	141.9	27.245	0.0907	9.07	0.9093	1106.3875	246.2501	165.00	23.00	0.0934	159.0834	5.0694
6.75	141.9	27.245	0.0941	9.41	0.9059	1110.6461	245.3059	164.00	22.00	0.0897	159.7686	5.0737
7.00	141.5	27.168	0.0976	9.76	0.9024	1114.9377	243.6728	164.00	22.00	0.0903	159.2243	5.0703
7.25	141.2	27.110	0.1011	10.11	0.8989	1119.2625	242.2166	164.00	22.00	0.0908	158.7389	5.0673
7.50	141.2	27.110	0.1046	10.46	0.8954	1123.6210	241.2771	164.00	22.00	0.0912	158.4257	5.0653
7.75	141.2	27.110	0.1081	10.81	0.8919	1128.0136	240.3375	164.00	22.00	0.0915	158.1125	5.0633
8.00	141.2	27.110	0.1116	11.16	0.8884	1132.4406	239.3980	163.00	21.00	0.0877	158.7993	5.0676
8.25	141.2	27.110	0.1151	11.51	0.8849	1136.9025	238.4584	163.00	21.00	0.0881	158.4861	5.0657
8.50	141.2	27.110	0.1185	11.85	0.8815	1141.3998	237.5189	163.00	21.00	0.0884	158.1730	5.0637
8.75	141.2	27.110	0.1220	12.20	0.8780	1145.9327	236.5793	163.00	21.00	0.0888	157.8598	5.0617
9.00	141.2	27.110	0.1255	12.55	0.8745	1150.5019	235.6398	162.00	20.00	0.0849	158.5466	5.0660
9.25	141.2	27.110	0.1290	12.90	0.8710	1155.1076	234.7002	161.00	19.00	0.0810	159.2334	5.0704
9.50	140.5	26.976	0.1325	13.25	0.8675	1159.7503	232.6018	161.00	19.00	0.0817	158.5339	5.0660
9.75	140.5	26.976	0.1360	13.60	0.8640	1164.4305	231.6669	161.00	19.00	0.0820	158.2223	5.0640
10.00	140.5	26.976	0.1395	13.95	0.8605	1169.1486	230.7320	161.00	19.00	0.0823	157.9107	5.0620
10.25	140.5	26.976	0.1430	14.30	0.8570	1173.9051	229.7971	161.00	19.00	0.0827	157.5990	5.0601
10.50	140.5	26.976	0.1464	14.64	0.8536	1178.7004	228.8622	160.00	18.00	0.0786	158.2874	5.0644
10.75	140.5	26.976	0.1499	14.99	0.8501	1183.5351	227.9273	160.00	18.00	0.0790	157.9758	5.0624
11.00	140.5	26.976	0.1534	15.34	0.8466	1188.4097	226.9924	160.00	18.00	0.0793	157.6641	5.0605
11.25	140.5	26.976	0.1569	15.69	0.8431	1193.3245	226.0575	159.00	17.00	0.0752	158.3525	5.0648
11.50	139.2	26.726	0.1604	16.04	0.8396	1198.2802	223.0397	159.00	17.00	0.0762	157.3466	5.0585
11.75	139.2	26.726	0.1639	16.39	0.8361	1203.2772	222.1134	159.00	17.00	0.0765	157.0378	5.0565
12.00	139.2	26.726	0.1674	16.74	0.8326	1208.3160	221.1872	158.00	16.00	0.0723	157.7291	5.0609
12.25	139.2	26.726	0.1709	17.09	0.8291	1213.3973	220.2609	158.00	16.00	0.0726	157.4203	5.0589
12.50	139.2	26.726	0.1743	17.43	0.8257	1218.5214	219.3347	157.00	15.00	0.0684	158.1116	5.0633
12.75	139.2	26.726	0.1778	17.78	0.8222	1223.6890	218.4084	157.00	15.00	0.0687	157.8028	5.0613
13.00	139.2	26.726	0.1813	18.13	0.8187	1228.9006	217.4822	156.00	14.00	0.0644	158.4941	5.0657
13.25	139.5	26.784	0.1848	18.48	0.8152	1234.1568	217.0227	156.00	14.00	0.0645	158.3409	5.0648
13.50	139.5	26.784	0.1883	18.83	0.8117	1239.4582	216.0944	155.00	13.00	0.0602	159.0315	5.0691
13.75	139.5	26.784	0.1918	19.18	0.8082	1244.8053	215.1662	155.00	13.00	0.0604	158.7221	5.0672
14.00	139.5	26.784	0.1953	19.53	0.8047	1250.1987	214.2379	155.00	13.00	0.0607	158.4126	5.0652
14.25	139.5	26.784	0.1987	19.87	0.8013	1255.6391	213.3097	155.00	13.00	0.0609	158.1032	5.0632
14.50	139.5	26.784	0.2022	20.22	0.7978	1261.1270	212.3815	154.00	12.00	0.0565	158.7938	5.0676
14.75	139.5	26.784	0.2057	20.57	0.7943	1266.6632	211.4532	154.00	12.00	0.0568	158.4844	5.0657
15.00	139.5	26.784	0.2092	20.92	0.7908	1272.2481	210.5250	154.00	12.00	0.0570	158.1750	5.0637



**Sampel 3 (  $\sigma_3' = 150 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 28% With 1 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A} / \Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	131.00	0.00		150.0000	5.0106
0.25	34.5	6.624	0.0035	0.35	0.9965	1009.6076	65.6096	131.00	0.00	0.0000	171.8699	5.1467
0.50	60.0	11.520	0.0070	0.70	0.9930	1013.1526	113.7045	132.00	1.00	0.0088	186.9015	5.2306
0.75	87.5	16.800	0.0105	1.05	0.9895	1016.7226	165.2368	135.00	4.00	0.0242	201.0789	5.3037
1.00	112.5	21.600	0.0139	1.39	0.9861	1020.3178	211.6988	140.00	9.00	0.0425	211.5663	5.3545
1.25	123.0	23.616	0.0174	1.74	0.9826	1023.9385	230.6389	141.00	10.00	0.0434	216.8796	5.3793
1.50	134.5	25.824	0.0209	2.09	0.9791	1027.5850	251.3077	144.00	13.00	0.0517	220.7692	5.3971
1.75	145.0	27.840	0.0244	2.44	0.9756	1031.2576	269.9617	148.00	17.00	0.0630	222.9872	5.4071
2.00	155.0	29.760	0.0279	2.79	0.9721	1034.9565	287.5483	149.00	18.00	0.0626	227.8494	5.4287
2.25	164.5	31.584	0.0314	3.14	0.9686	1038.6820	304.0777	150.00	19.00	0.0625	232.3592	5.4483
2.50	171.0	32.832	0.0349	3.49	0.9651	1042.4345	314.9550	152.00	21.00	0.0667	233.9850	5.4553
2.75	176.0	33.792	0.0384	3.84	0.9616	1046.2142	322.9931	153.00	22.00	0.0681	235.6644	5.4624
3.00	182.5	35.040	0.0418	4.18	0.9582	1050.0213	333.7075	155.00	24.00	0.0719	237.2358	5.4691
3.25	184.5	35.424	0.0453	4.53	0.9547	1053.8563	336.1369	157.00	26.00	0.0773	236.0456	5.4640
3.50	188.0	36.096	0.0488	4.88	0.9512	1057.7195	341.2625	158.00	27.00	0.0791	236.7542	5.4670
3.75	191.5	36.768	0.0523	5.23	0.9477	1061.6110	346.3416	158.00	27.00	0.0780	238.4472	5.4741
4.00	194.0	37.248	0.0558	5.58	0.9442	1065.5313	349.5721	159.00	28.00	0.0801	238.5240	5.4745
4.25	194.5	37.344	0.0593	5.93	0.9407	1069.4806	349.1788	159.00	28.00	0.0802	238.3929	5.4739
4.50	198.5	38.112	0.0628	6.28	0.9372	1073.4593	355.0391	159.00	28.00	0.0789	240.3464	5.4821
4.75	202.0	38.784	0.0662	6.62	0.9338	1077.4678	359.9551	160.00	29.00	0.0806	240.9850	5.4847
5.00	203.5	39.072	0.0697	6.97	0.9303	1081.5062	361.2739	160.00	29.00	0.0803	241.4246	5.4866
5.25	204.5	39.264	0.0732	7.32	0.9268	1085.5751	361.6885	160.00	29.00	0.0802	241.5628	5.4871
5.50	205.0	39.360	0.0767	7.67	0.9233	1089.6747	361.2087	160.00	29.00	0.0803	241.4029	5.4865
5.75	209.0	40.128	0.0802	8.02	0.9198	1093.8054	366.8660	160.00	29.00	0.0790	243.2887	5.4942
6.00	210.5	40.416	0.0837	8.37	0.9163	1097.9675	368.0983	160.00	29.00	0.0788	243.6994	5.4959
6.25	212.5	40.800	0.0872	8.72	0.9128	1102.1614	370.1817	160.00	29.00	0.0783	244.3939	5.4988
6.50	214.2	41.126	0.0907	9.07	0.9093	1106.3875	371.7179	160.00	29.00	0.0780	244.9060	5.5009
6.75	216.0	41.472	0.0941	9.41	0.9059	1110.6461	373.4043	160.00	29.00	0.0777	245.4681	5.5032
7.00	217.5	41.760	0.0976	9.76	0.9024	1114.9377	374.5501	160.00	29.00	0.0774	245.8500	5.5047
7.25	218.5	41.952	0.1011	10.11	0.8989	1119.2625	374.8182	160.00	29.00	0.0774	245.9394	5.5051
7.50	219.5	42.144	0.1046	10.46	0.8954	1123.6210	375.0731	160.00	29.00	0.0773	246.0244	5.5054
7.75	220.5	42.336	0.1081	10.81	0.8919	1128.0136	375.3146	160.00	29.00	0.0773	246.1049	5.5058
8.00	221.0	42.432	0.1116	11.16	0.8884	1132.4406	374.6951	160.00	29.00	0.0774	245.8984	5.5049
8.25	221.5	42.528	0.1151	11.51	0.8849	1136.9025	374.0690	159.00	28.00	0.0749	246.6897	5.5081
8.50	222.5	42.720	0.1185	11.85	0.8815	1141.3998	374.2773	159.00	28.00	0.0748	246.7591	5.5084
8.75	223.5	42.912	0.1220	12.20	0.8780	1145.9327	374.4722	159.00	28.00	0.0748	246.8241	5.5087
9.00	224.5	43.104	0.1255	12.55	0.8745	1150.5019	374.6539	159.00	28.00	0.0747	246.8846	5.5089
9.25	225.0	43.200	0.1290	12.90	0.8710	1155.1076	373.9911	159.00	28.00	0.0749	246.6637	5.5080
9.50	225.2	43.238	0.1325	13.25	0.8675	1159.7503	372.8251	159.00	28.00	0.0751	246.2750	5.5064
9.75	225.2	43.238	0.1360	13.60	0.8640	1164.4305	371.3266	159.00	28.00	0.0754	245.7755	5.5044
10.00	226.5	43.488	0.1395	13.95	0.8605	1169.1486	371.9630	159.00	28.00	0.0753	245.9877	5.5053
10.25	227.0	43.584	0.1430	14.30	0.8570	1173.9051	371.2736	159.00	28.00	0.0754	245.7579	5.5043
10.50	228.0	43.776	0.1464	14.64	0.8536	1178.7004	371.3921	158.00	27.00	0.0727	246.7974	5.5086
10.75	228.8	43.930	0.1499	14.99	0.8501	1183.5351	371.1728	158.00	27.00	0.0727	246.7243	5.5083
11.00	229.5	44.064	0.1534	15.34	0.8466	1188.4097	370.7812	158.00	27.00	0.0728	246.5937	5.5077
11.25	229.8	44.122	0.1569	15.69	0.8431	1193.3245	369.7368	158.00	27.00	0.0730	246.2456	5.5063
11.50	230.0	44.160	0.1604	16.04	0.8396	1198.2802	368.5282	157.00	26.00	0.0706	246.8427	5.5088
11.75	231.0	44.352	0.1639	16.39	0.8361	1203.2772	368.5934	157.00	26.00	0.0705	246.8645	5.5088
12.00	232.0	44.544	0.1674	16.74	0.8326	1208.3160	368.6453	157.00	26.00	0.0705	246.8818	5.5089
12.25	232.5	44.640	0.1709	17.09	0.8291	1213.3973	367.8927	157.00	26.00	0.0707	246.6309	5.5079
12.50	233.0	44.736	0.1743	17.43	0.8257	1218.5214	367.1335	157.00	26.00	0.0708	246.3778	5.5069
12.75	233.1	44.755	0.1778	17.78	0.8222	1223.6890	365.7400	156.00	25.00	0.0684	246.9133	5.5090
13.00	233.5	44.832	0.1813	18.13	0.8187	1228.9006	364.8139	156.00	25.00	0.0685	246.6046	5.5078
13.25	234.0	44.928	0.1848	18.48	0.8152	1234.1568	364.0380	156.00	25.00	0.0687	246.3460	5.5067
13.50	234.5	45.024	0.1883	18.83	0.8117	1239.4582	363.2555	155.00	24.00	0.0661	247.0852	5.5097
13.75	234.5	45.024	0.1918	19.18	0.8082	1244.8053	361.6951	155.00	24.00	0.0664	246.5650	5.5076
14.00	234.5	45.024	0.1953	19.53	0.8047	1250.1987	360.1347	154.00	23.00	0.0639	247.0449	5.5096
14.25	234.5	45.024	0.1987	19.87	0.8013	1255.6391	358.5744	153.00	22.00	0.0614	247.5248	5.5115
14.50	234.5	45.024	0.2022	20.22	0.7978	1261.1270	357.0140	152.00	21.00	0.0588	248.0047	5.5134
14.75	234.0	44.928	0.2057	20.57	0.7943	1266.6632	354.6957	152.00	21.00	0.0592	247.2319	5.5103
15.00	234.0	44.928	0.2092	20.92	0.7908	1272.2481	353.1387	152.00	21.00	0.0595	246.7129	5.5082

DATA TRIAKSIAL KOMPRESI

**Sampel 1 (  $\sigma_3' = 50 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 28% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (Lo) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	150.00	0.00		50.0000	3.9120
0.25	19.0	3.648	0.0035	0.35	0.9965	1009.6076	36.1328	153.00	3.00	0.0830	59.0443	4.0783
0.50	21.0	4.032	0.0070	0.70	0.9930	1013.1526	39.7966	153.00	3.00	0.0754	60.2655	4.0988
0.75	23.0	4.416	0.0105	1.05	0.9895	1016.7226	43.4337	153.00	3.00	0.0691	61.4779	4.1187
1.00	25.0	4.800	0.0139	1.39	0.9861	1020.3178	47.0442	153.00	3.00	0.0638	62.6814	4.1381
1.25	26.5	5.088	0.0174	1.74	0.9826	1023.9385	49.6905	153.00	3.00	0.0604	63.5635	4.1520
1.50	27.5	5.280	0.0209	2.09	0.9791	1027.5850	51.3826	155.00	5.00	0.0973	62.1275	4.1292
1.75	29.5	5.664	0.0244	2.44	0.9756	1031.2576	54.9232	155.00	5.00	0.0910	63.3077	4.1480
2.00	31.0	5.952	0.0279	2.79	0.9721	1034.9565	57.5097	155.00	5.00	0.0869	64.1699	4.1615
2.25	32.0	6.144	0.0314	3.14	0.9686	1038.6820	59.1519	155.00	5.00	0.0845	64.7173	4.1700
2.50	32.5	6.240	0.0349	3.49	0.9651	1042.4345	59.8599	155.00	5.00	0.0835	64.9533	4.1737
2.75	33.0	6.336	0.0384	3.84	0.9616	1046.2142	60.5612	158.00	8.00	0.1321	62.1871	4.1301
3.00	33.0	6.336	0.0418	4.18	0.9582	1050.0213	60.3416	158.00	8.00	0.1326	62.1139	4.1290
3.25	33.0	6.336	0.0453	4.53	0.9547	1053.8563	60.1220	158.00	8.00	0.1331	62.0407	4.1278
3.50	33.5	6.432	0.0488	4.88	0.9512	1057.7195	60.8101	158.00	8.00	0.1316	62.2700	4.1315
3.75	33.5	6.432	0.0523	5.23	0.9477	1061.6110	60.5872	160.00	10.00	0.1651	60.1957	4.0976
4.00	34.0	6.528	0.0558	5.58	0.9442	1065.5313	61.2652	160.00	10.00	0.1632	60.4217	4.1013
4.25	34.5	6.624	0.0593	5.93	0.9407	1069.4806	61.9366	160.00	10.00	0.1615	60.6455	4.1050
4.50	35.0	6.720	0.0628	6.28	0.9372	1073.4593	62.6013	162.00	12.00	0.1917	58.8671	4.0753
4.75	35.5	6.816	0.0662	6.62	0.9338	1077.4678	63.2594	162.00	12.00	0.1897	59.0865	4.0790
5.00	35.5	6.816	0.0697	6.97	0.9303	1081.5062	63.0232	162.00	12.00	0.1904	59.0077	4.0777
5.25	35.5	6.816	0.0732	7.32	0.9268	1085.5751	62.7870	162.00	12.00	0.1911	58.9290	4.0763
5.50	35.0	6.720	0.0767	7.67	0.9233	1089.6747	61.6698	162.00	12.00	0.1946	58.5566	4.0700
5.75	34.5	6.624	0.0802	8.02	0.9198	1093.8054	60.5592	162.00	12.00	0.1982	58.1864	4.0637
6.00	34.5	6.624	0.0837	8.37	0.9163	1097.9675	60.3297	161.00	11.00	0.1823	59.1099	4.0794
6.25	34.5	6.624	0.0872	8.72	0.9128	1102.1614	60.1001	161.00	11.00	0.1830	59.0334	4.0781
6.50	34.5	6.624	0.0907	9.07	0.9093	1106.3875	59.8705	161.00	11.00	0.1837	58.9568	4.0768
6.75	35.0	6.720	0.0941	9.41	0.9059	1110.6461	60.5053	161.00	11.00	0.1818	59.1684	4.0804
7.00	35.0	6.720	0.0976	9.76	0.9024	1114.9377	60.2724	161.00	11.00	0.1825	59.0908	4.0791
7.25	35.0	6.720	0.1011	10.11	0.8989	1119.2625	60.0395	160.00	10.00	0.1666	60.0132	4.0946
7.50	35.0	6.720	0.1046	10.46	0.8954	1123.6210	59.8066	160.00	10.00	0.1672	59.9355	4.0933
7.75	34.5	6.624	0.1081	10.81	0.8919	1128.0136	58.7227	160.00	10.00	0.1703	59.5742	4.0872
8.00	34.5	6.624	0.1116	11.16	0.8884	1132.4406	58.4931	160.00	10.00	0.1710	59.4977	4.0859
8.25	34.5	6.624	0.1151	11.51	0.8849	1136.9025	58.2636	160.00	10.00	0.1716	59.4212	4.0847
8.50	33.5	6.432	0.1185	11.85	0.8815	1141.3998	56.3519	159.00	9.00	0.1597	59.7840	4.0907
8.75	34.0	6.528	0.1220	12.20	0.8780	1145.9327	56.9667	159.00	9.00	0.1580	59.9889	4.0942
9.00	34.0	6.528	0.1255	12.55	0.8745	1150.5019	56.7405	159.00	9.00	0.1586	59.9135	4.0929
9.25	34.0	6.528	0.1290	12.90	0.8710	1155.1076	56.5142	159.00	9.00	0.1593	59.8381	4.0916
9.50	33.5	6.432	0.1325	13.25	0.8675	1159.7503	55.4602	158.00	8.00	0.1442	60.4867	4.1024
9.75	33.5	6.432	0.1360	13.60	0.8640	1164.4305	55.2373	158.00	8.00	0.1448	60.4124	4.1012
10.00	33.5	6.432	0.1395	13.95	0.8605	1169.1486	55.0144	158.00	8.00	0.1454	60.3381	4.1000
10.25	31.5	6.048	0.1430	14.30	0.8570	1173.9051	51.5203	158.00	8.00	0.1553	59.1734	4.0805
10.50	31.0	5.952	0.1464	14.64	0.8536	1178.7004	50.4963	157.00	7.00	0.1386	59.8321	4.0915
10.75	31.0	5.952	0.1499	14.99	0.8501	1183.5351	50.2900	157.00	7.00	0.1392	59.7633	4.0904
11.00	31.0	5.952	0.1534	15.34	0.8466	1188.4097	50.0837	157.00	7.00	0.1398	59.6946	4.0892
11.25	31.0	5.952	0.1569	15.69	0.8431	1193.3245	49.8775	157.00	7.00	0.1403	59.6258	4.0881
11.50	31.0	5.952	0.1604	16.04	0.8396	1198.2802	49.6712	156.00	6.00	0.1208	60.5571	4.1036
11.75	30.0	5.760	0.1639	16.39	0.8361	1203.2772	47.8693	156.00	6.00	0.1253	59.9564	4.0936
12.00	30.0	5.760	0.1674	16.74	0.8326	1208.3160	47.6696	156.00	6.00	0.1259	59.8899	4.0925
12.25	29.0	5.568	0.1709	17.09	0.8291	1213.3973	45.8877	156.00	6.00	0.1308	59.2959	4.0825
12.50	28.5	5.472	0.1743	17.43	0.8257	1218.5214	44.9069	155.00	5.00	0.1113	59.9690	4.0938
12.75	28.0	5.376	0.1778	17.78	0.8222	1223.6890	43.9327	155.00	5.00	0.1138	59.6442	4.0884
13.00	28.0	5.376	0.1813	18.13	0.8187	1228.9006	43.7464	155.00	5.00	0.1143	59.5821	4.0874
13.25	28.0	5.376	0.1848	18.48	0.8152	1234.1568	43.5601	154.00	4.00	0.0918	60.5200	4.1030
13.50	28.0	5.376	0.1883	18.83	0.8117	1239.4582	43.3738	154.00	4.00	0.0922	60.4579	4.1019
13.75	28.0	5.376	0.1918	19.18	0.8082	1244.8053	43.1875	154.00	4.00	0.0926	60.3958	4.1009
14.00	28.0	5.376	0.1953	19.53	0.8047	1250.1987	43.0012	153.00	3.00	0.0698	61.3337	4.1163
14.25	28.0	5.376	0.1987	19.87	0.8013	1255.6391	42.8149	153.00	3.00	0.0701	61.2716	4.1153
14.50	27.0	5.184	0.2022	20.22	0.7978	1261.1270	41.1061	153.00	3.00	0.0730	60.7020	4.1060
14.75	26.0	4.992	0.2057	20.57	0.7943	1266.6632	39.4106	153.00	3.00	0.0761	60.1369	4.0966
15.00	25.0	4.800	0.2092	20.92	0.7908	1272.2481	37.7285	152.00	2.00	0.0530	60.5762	4.1039

**Sampel 2 (  $\sigma_3' = 100 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 28% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm

Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A} / \Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	140.00	0.00		100.0000	4.6052
0.25	22.0	4.224	0.0035	0.35	0.9965	1009.6076	41.8380	144.00	4.00	0.0956	109.9460	4.7000
0.50	28.0	5.376	0.0070	0.70	0.9930	1013.1526	53.0621	144.00	4.00	0.0754	113.6874	4.7335
0.75	35.0	6.720	0.0105	1.05	0.9895	1016.7226	66.0947	148.00	8.00	0.1210	114.0316	4.7365
1.00	35.0	6.720	0.0139	1.39	0.9861	1020.3178	65.8618	148.00	8.00	0.1215	113.9539	4.7358
1.25	35.0	6.720	0.0174	1.74	0.9826	1023.9385	65.6289	148.00	8.00	0.1219	113.8763	4.7351
1.50	40.0	7.680	0.0209	2.09	0.9791	1027.5850	74.7383	152.00	12.00	0.1606	112.9128	4.7266
1.75	40.0	7.680	0.0244	2.44	0.9756	1031.2576	74.4722	152.00	12.00	0.1611	112.8241	4.7258
2.00	40.0	7.680	0.0279	2.79	0.9721	1034.9565	74.2060	152.00	12.00	0.1617	112.7353	4.7250
2.25	40.0	7.680	0.0314	3.14	0.9686	1038.6820	73.9399	156.00	16.00	0.2164	108.6466	4.6881
2.50	40.0	7.680	0.0349	3.49	0.9651	1042.4345	73.6737	156.00	16.00	0.2172	108.5579	4.6873
2.75	40.0	7.680	0.0384	3.84	0.9616	1046.2142	73.4075	156.00	16.00	0.2180	108.4692	4.6865
3.00	44.0	8.448	0.0418	4.18	0.9582	1050.0213	80.4555	160.00	20.00	0.2486	106.8185	4.6711
3.25	44.0	8.448	0.0453	4.53	0.9547	1053.8563	80.1627	160.00	20.00	0.2495	106.7209	4.6702
3.50	44.0	8.448	0.0488	4.88	0.9512	1057.7195	79.8700	160.00	20.00	0.2504	106.6233	4.6693
3.75	44.0	8.448	0.0523	5.23	0.9477	1061.6110	79.5772	164.00	24.00	0.3016	102.5257	4.6301
4.00	44.0	8.448	0.0558	5.58	0.9442	1065.5313	79.2844	164.00	24.00	0.3027	102.4281	4.6292
4.25	44.0	8.448	0.0593	5.93	0.9407	1069.4806	78.9916	164.00	24.00	0.3038	102.3305	4.6282
4.50	47.0	9.024	0.0628	6.28	0.9372	1073.4593	84.0647	165.00	25.00	0.2974	103.0216	4.6349
4.75	47.0	9.024	0.0662	6.62	0.9338	1077.4678	83.7519	165.00	25.00	0.2985	102.9173	4.6339
5.00	47.0	9.024	0.0697	6.97	0.9303	1081.5062	83.4392	165.00	25.00	0.2996	102.8131	4.6329
5.25	47.0	9.024	0.0732	7.32	0.9268	1085.5751	83.1264	164.00	24.00	0.2887	103.7088	4.6416
5.50	47.0	9.024	0.0767	7.67	0.9233	1089.6747	82.8137	164.00	24.00	0.2898	103.6046	4.6406
5.75	47.0	9.024	0.0802	8.02	0.9198	1093.8054	82.5010	164.00	24.00	0.2909	103.5003	4.6396
6.00	49.0	9.408	0.0837	8.37	0.9163	1097.9675	85.6856	163.00	23.00	0.2684	105.5619	4.6593
6.25	49.0	9.408	0.0872	8.72	0.9128	1102.1614	85.3595	163.00	23.00	0.2694	105.4532	4.6583
6.50	49.0	9.408	0.0907	9.07	0.9093	1106.3875	85.0335	163.00	23.00	0.2705	105.3445	4.6572
6.75	49.0	9.408	0.0941	9.41	0.9059	1110.6461	84.7074	162.00	22.00	0.2597	106.2358	4.6657
7.00	49.0	9.408	0.0976	9.76	0.9024	1114.9377	84.3814	162.00	22.00	0.2607	106.1271	4.6646
7.25	49.0	9.408	0.1011	10.11	0.8989	1119.2625	84.0554	161.00	21.00	0.2498	107.0185	4.6730
7.50	50.0	9.600	0.1046	10.46	0.8954	1123.6210	85.4381	161.00	21.00	0.2458	107.4794	4.6773
7.75	50.0	9.600	0.1081	10.81	0.8919	1128.0136	85.1054	160.00	20.00	0.2350	108.3685	4.6855
8.00	50.0	9.600	0.1116	11.16	0.8884	1132.4406	84.7727	160.00	20.00	0.2359	108.2576	4.6845
8.25	51.0	9.792	0.1151	11.51	0.8849	1136.9025	86.1288	159.00	19.00	0.2206	109.7096	4.6978
8.50	51.0	9.792	0.1185	11.85	0.8815	1141.3998	85.7894	158.00	18.00	0.2098	110.5965	4.7059
8.75	51.0	9.792	0.1220	12.20	0.8780	1145.9327	85.4500	157.00	17.00	0.1989	111.4833	4.7139
9.00	52.0	9.984	0.1255	12.55	0.8745	1150.5019	86.7795	156.00	16.00	0.1844	112.9265	4.7267
9.25	52.0	9.984	0.1290	12.90	0.8710	1155.1076	86.4335	156.00	16.00	0.1851	112.8112	4.7257
9.50	52.0	9.984	0.1325	13.25	0.8675	1159.7503	86.0875	155.00	15.00	0.1742	113.6958	4.7335
9.75	53.0	10.176	0.1360	13.60	0.8640	1164.4305	87.3904	155.00	15.00	0.1716	114.1301	4.7373
10.00	53.0	10.176	0.1395	13.95	0.8605	1169.1486	87.0377	154.00	14.00	0.1608	115.0126	4.7450
10.25	53.0	10.176	0.1430	14.30	0.8570	1173.9051	86.6850	154.00	14.00	0.1615	114.8950	4.7440
10.50	54.0	10.368	0.1464	14.64	0.8536	1178.7004	87.9613	153.00	13.00	0.1478	116.3204	4.7563
10.75	54.0	10.368	0.1499	14.99	0.8501	1183.5351	87.6020	153.00	13.00	0.1484	116.2007	4.7553
11.00	54.0	10.368	0.1534	15.34	0.8466	1188.4097	87.2426	153.00	13.00	0.1490	116.0809	4.7543
11.25	55.0	10.560	0.1569	15.69	0.8431	1193.3245	88.4923	152.00	12.00	0.1356	117.4974	4.7664
11.50	55.0	10.560	0.1604	16.04	0.8396	1198.2802	88.1263	152.00	12.00	0.1362	117.3754	4.7654
11.75	55.0	10.560	0.1639	16.39	0.8361	1203.2772	87.7603	151.00	11.00	0.1253	118.2534	4.7728
12.00	56.0	10.752	0.1674	16.74	0.8326	1208.3160	88.9833	151.00	11.00	0.1236	118.6611	4.7763
12.25	56.0	10.752	0.1709	17.09	0.8291	1213.3973	88.6107	150.00	10.00	0.1129	119.5369	4.7836
12.50	56.0	10.752	0.1743	17.43	0.8257	1218.5214	88.2381	150.00	10.00	0.1133	119.4127	4.7826
12.75	57.0	10.944	0.1778	17.78	0.8222	1223.6890	89.4345	149.00	9.00	0.1006	120.8115	4.7942
13.00	57.0	10.944	0.1813	18.13	0.8187	1228.9006	89.0552	149.00	9.00	0.1011	120.6851	4.7932
13.25	57.0	10.944	0.1848	18.48	0.8152	1234.1568	88.6759	148.00	8.00	0.0902	121.5586	4.8004
13.50	58.0	11.136	0.1883	18.83	0.8117	1239.4582	89.8457	148.00	8.00	0.0890	121.9486	4.8036
13.75	58.0	11.136	0.1918	19.18	0.8082	1244.8053	89.4598	147.00	7.00	0.0782	122.8199	4.8107
14.00	58.0	11.136	0.1953	19.53	0.8047	1250.1987	89.0738	147.00	7.00	0.0786	122.6913	4.8097
14.25	59.0	11.328	0.1987	19.87	0.8013	1255.6391	90.2170	146.00	6.00	0.0665	124.0723	4.8209
14.50	59.0	11.328	0.2022	20.22	0.7978	1261.1270	89.8244	146.00	6.00	0.0668	123.9415	4.8198
14.75	59.0	11.328	0.2057	20.57	0.7943	1266.6632	89.4318	146.00	6.00	0.0671	123.8106	4.8188
15.00	60.0	11.520	0.2092	20.92	0.7908	1272.2481	90.5484	145.00	5.00	0.0552	125.1828	4.8298

**Sampel 3 (  $\sigma_3' = 150$  Kpa )**

Jenis Tanah : Soft Clay 28% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	139.000	0.00		150.0000	5.0106
0.25	61.5	11.808	0.0035	0.35	0.9965	1009.6076	116.9563	145.00	6.00	0.0513	182.9854	5.2094
0.50	68.0	13.056	0.0070	0.70	0.9930	1013.1526	128.8651	145.00	6.00	0.0466	186.9550	5.2309
0.75	71.5	13.728	0.0105	1.05	0.9895	1016.7226	135.0221	150.00	11.00	0.0815	184.0074	5.2150
1.00	73.0	14.016	0.0139	1.39	0.9861	1020.3178	137.3690	150.00	11.00	0.0801	184.7897	5.2192
1.25	77.0	14.784	0.0174	1.74	0.9826	1023.9385	144.3837	150.00	11.00	0.0762	187.1279	5.2318
1.50	78.5	15.072	0.0209	2.09	0.9791	1027.5850	146.6740	156.00	17.00	0.1159	181.8913	5.2034
1.75	79.0	15.168	0.0244	2.44	0.9756	1031.2576	147.0826	156.00	17.00	0.1156	182.0275	5.2042
2.00	80.0	15.360	0.0279	2.79	0.9721	1034.9565	148.4120	156.00	17.00	0.1145	182.4707	5.2066
2.25	81.5	15.648	0.0314	3.14	0.9686	1038.6820	150.6525	162.00	23.00	0.1527	177.2175	5.1774
2.50	82.5	15.840	0.0349	3.49	0.9651	1042.4345	151.9520	162.00	23.00	0.1514	177.6507	5.1798
2.75	82.5	15.840	0.0384	3.84	0.9616	1046.2142	151.4030	162.00	23.00	0.1519	177.4677	5.1788
3.00	84.0	16.128	0.0418	4.18	0.9582	1050.0213	153.5969	162.00	23.00	0.1497	178.1990	5.1829
3.25	85.5	16.416	0.0453	4.53	0.9547	1053.8563	155.7708	168.00	29.00	0.1862	172.9236	5.1528
3.50	86.5	16.608	0.0488	4.88	0.9512	1057.7195	157.0171	168.00	29.00	0.1847	173.3390	5.1552
3.75	87.0	16.704	0.0523	5.23	0.9477	1061.6110	157.3458	168.00	29.00	0.1843	173.4486	5.1559
4.00	87.0	16.704	0.0558	5.58	0.9442	1065.5313	156.7669	170.00	31.00	0.1977	171.2556	5.1432
4.25	87.0	16.704	0.0593	5.93	0.9407	1069.4806	156.1880	170.00	31.00	0.1985	171.0627	5.1420
4.50	87.5	16.800	0.0628	6.28	0.9372	1073.4593	156.5034	172.00	33.00	0.2109	169.1678	5.1309
4.75	88.0	16.896	0.0662	6.62	0.9338	1077.4678	156.8121	172.00	33.00	0.2104	169.2707	5.1315
5.00	88.5	16.992	0.0697	6.97	0.9303	1081.5062	157.1142	172.00	33.00	0.2100	169.3714	5.1321
5.25	89.0	17.088	0.0732	7.32	0.9268	1085.5751	157.4097	171.00	32.00	0.2033	170.4699	5.1386
5.50	89.5	17.184	0.0767	7.67	0.9233	1089.6747	157.6984	171.00	32.00	0.2029	170.5661	5.1391
5.75	90.0	17.280	0.0802	8.02	0.9198	1093.8054	157.9806	170.00	31.00	0.1962	171.6602	5.1455
6.00	90.0	17.280	0.0837	8.37	0.9163	1097.9675	157.3817	169.00	30.00	0.1906	172.4606	5.1502
6.25	90.0	17.280	0.0872	8.72	0.9128	1102.1614	156.7828	168.00	29.00	0.1850	173.2609	5.1548
6.50	88.0	16.896	0.0907	9.07	0.9093	1106.3875	152.7132	167.00	28.00	0.1834	172.9044	5.1527
6.75	86.0	16.512	0.0941	9.41	0.9059	1110.6461	148.6702	166.00	27.00	0.1816	172.5567	5.1507
7.00	87.0	16.704	0.0976	9.76	0.9024	1114.9377	149.8200	165.00	26.00	0.1735	173.9400	5.1587
7.25	88.0	16.896	0.1011	10.11	0.8989	1119.2625	150.9565	164.00	25.00	0.1656	175.3188	5.1666
7.50	88.0	16.896	0.1046	10.46	0.8954	1123.6210	150.3710	163.00	24.00	0.1596	176.1237	5.1712
7.75	89.0	17.088	0.1081	10.81	0.8919	1128.0136	151.4875	162.00	23.00	0.1518	177.4958	5.1789
8.00	89.0	17.088	0.1116	11.16	0.8884	1132.4406	150.8953	161.00	22.00	0.1458	178.2984	5.1835
8.25	89.5	17.184	0.1151	11.51	0.8849	1136.9025	151.1475	160.00	21.00	0.1389	179.3825	5.1895
8.50	89.5	17.184	0.1185	11.85	0.8815	1141.3998	150.5520	159.00	20.00	0.1328	180.1840	5.1940
8.75	89.5	17.184	0.1220	12.20	0.8780	1145.9327	149.9564	159.00	20.00	0.1334	179.9855	5.1929
9.00	90.0	17.280	0.1255	12.55	0.8745	1150.5019	150.1953	159.00	20.00	0.1332	180.0651	5.1933
9.25	90.0	17.280	0.1290	12.90	0.8710	1155.1076	149.5965	158.00	19.00	0.1270	180.8655	5.1978
9.50	90.0	17.280	0.1325	13.25	0.8675	1159.7503	148.9976	158.00	19.00	0.1275	180.6659	5.1966
9.75	90.0	17.280	0.1360	13.60	0.8640	1164.4305	148.3987	158.00	19.00	0.1280	180.4662	5.1955
10.00	90.0	17.280	0.1395	13.95	0.8605	1169.1486	147.7999	157.00	18.00	0.1218	181.2666	5.2000
10.25	90.0	17.280	0.1430	14.30	0.8570	1173.9051	147.2010	157.00	18.00	0.1223	181.0670	5.1989
10.50	90.0	17.280	0.1464	14.64	0.8536	1178.7004	146.6021	156.00	17.00	0.1160	181.8674	5.2033
10.75	90.0	17.280	0.1499	14.99	0.8501	1183.5351	146.0033	156.00	17.00	0.1164	181.6678	5.2022
11.00	90.0	17.280	0.1534	15.34	0.8466	1188.4097	145.4044	155.00	16.00	0.1100	182.4681	5.2066
11.25	90.0	17.280	0.1569	15.69	0.8431	1193.3245	144.8055	155.00	16.00	0.1105	182.2685	5.2055
11.50	90.0	17.280	0.1604	16.04	0.8396	1198.2802	144.2067	154.00	15.00	0.1040	183.0689	5.2099
11.75	90.5	17.376	0.1639	16.39	0.8361	1203.2772	144.4056	154.00	15.00	0.1039	183.1352	5.2102
12.00	91.0	17.472	0.1674	16.74	0.8326	1208.3160	144.5979	153.00	14.00	0.0968	184.1993	5.2160
12.25	91.0	17.472	0.1709	17.09	0.8291	1213.3973	143.9924	153.00	14.00	0.0972	183.9975	5.2149
12.50	92.0	17.664	0.1743	17.43	0.8257	1218.5214	144.9626	152.00	13.00	0.0897	185.3209	5.2221
12.75	92.0	17.664	0.1778	17.78	0.8222	1223.6890	144.3504	152.00	13.00	0.0901	185.1168	5.2210
13.00	92.0	17.664	0.1813	18.13	0.8187	1228.9006	143.7382	151.00	12.00	0.0835	185.9127	5.2253
13.25	92.0	17.664	0.1848	18.48	0.8152	1234.1568	143.1261	151.00	12.00	0.0838	185.7087	5.2242
13.50	91.0	17.472	0.1883	18.83	0.8117	1239.4582	142.5148	150.00	11.00	0.0780	186.5883	5.2257
13.75	91.0	17.472	0.1918	19.18	0.8082	1244.8053	141.9033	150.00	11.00	0.0784	186.4864	5.2246
14.00	92.0	17.664	0.1953	19.53	0.8047	1250.1987	141.2915	149.00	10.00	0.0708	187.4965	5.2316
14.25	92.0	17.664	0.1987	19.87	0.8013	1255.6391	140.6774	148.00	9.00	0.0640	188.6225	5.2359
14.50	92.5	17.760	0.2022	20.22	0.7978	1261.1270	140.0624	147.00	8.00	0.0568	189.8421	5.2414
14.75	92.5	17.760	0.2057	20.57	0.7943	1266.6632	140.2109	146.00	7.00	0.0499	189.7370	5.2456
15.00	92.0	17.664	0.2092	20.92	0.7908	1272.2481	138.8408	145.00	6.00	0.0432	190.2803	5.2485



DATA TRIAKSIAL KOMPRESI

Sampel 1 ( $\sigma_3' = 50 \text{ Kpa}$ )

Jenis Tanah : Soft Clay 30% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel ( $L_0$ ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	145.00	0.00		50.0000	3.9120
0.25	14.0	2.688	0.0035	0.35	0.9965	1009.6076	26.6242	150.00	5.00	0.1878	53.8747	3.9867
0.50	16.0	3.072	0.0070	0.70	0.9930	1013.1526	30.3212	155.00	10.00	0.3298	50.1071	3.9142
0.75	19.0	3.648	0.0105	1.05	0.9895	1016.7226	35.8800	158.00	13.00	0.3623	48.9600	3.8910
1.00	19.0	3.648	0.0139	1.39	0.9861	1020.3178	35.7536	160.00	15.00	0.4195	46.9179	3.8484
1.25	19.8	3.802	0.0174	1.74	0.9826	1023.9385	37.1272	164.00	19.00	0.5118	43.3757	3.7699
1.50	20.1	3.859	0.0209	2.09	0.9791	1027.5850	37.5560	164.00	19.00	0.5059	43.5187	3.7732
1.75	21.0	4.032	0.0244	2.44	0.9756	1031.2576	39.0979	165.00	20.00	0.5115	43.0326	3.7620
2.00	21.8	4.186	0.0279	2.79	0.9721	1034.9565	40.4423	165.00	20.00	0.4945	43.4808	3.7723
2.25	22.5	4.320	0.0314	3.14	0.9686	1038.6820	41.5912	166.00	21.00	0.5049	42.8637	3.7580
2.50	23.5	4.512	0.0349	3.49	0.9651	1042.4345	43.2833	166.00	21.00	0.4852	43.4278	3.7711
2.75	24.0	4.608	0.0384	3.84	0.9616	1046.2142	44.0445	169.00	24.00	0.5449	40.6815	3.7058
3.00	24.8	4.762	0.0418	4.18	0.9582	1050.0213	45.3476	169.00	24.00	0.5292	41.1159	3.7164
3.25	25.5	4.896	0.0453	4.53	0.9547	1053.8563	46.4579	172.00	27.00	0.5812	38.4860	3.6503
3.50	26.5	5.088	0.0488	4.88	0.9512	1057.7195	48.1035	172.00	27.00	0.5613	39.0345	3.6644
3.75	27.0	5.184	0.0523	5.23	0.9477	1061.6110	48.8314	173.50	28.50	0.5836	37.7771	3.6317
4.00	28.0	5.376	0.0558	5.58	0.9442	1065.5313	50.4537	173.50	28.50	0.5649	38.3179	3.6459
4.25	28.5	5.472	0.0593	5.93	0.9407	1069.4806	51.1650	175.00	30.00	0.5863	37.0550	3.6124
4.50	29.0	5.568	0.0628	6.28	0.9372	1073.4593	51.8697	175.00	30.00	0.5784	37.2899	3.6187
4.75	29.5	5.664	0.0662	6.62	0.9338	1077.4678	52.5677	175.00	30.00	0.5707	37.5226	3.6249
5.00	30.0	5.760	0.0697	6.97	0.9303	1081.5062	53.2591	175.00	30.00	0.5633	37.7530	3.6311
5.25	30.0	5.760	0.0732	7.32	0.9268	1085.5751	53.0594	174.00	29.00	0.5466	38.6865	3.6555
5.50	30.5	5.856	0.0767	7.67	0.9233	1089.6747	53.7408	174.00	29.00	0.5396	38.9136	3.6613
5.75	30.5	5.856	0.0802	8.02	0.9198	1093.8054	53.5379	174.00	29.00	0.5417	38.8460	3.6596
6.00	31.5	6.048	0.0837	8.37	0.9163	1097.9675	55.0836	174.00	29.00	0.5265	39.3612	3.6728
6.25	31.5	6.048	0.0872	8.72	0.9128	1102.1614	54.8740	174.00	29.00	0.5285	39.2913	3.6710
6.50	31.5	6.048	0.0907	9.07	0.9093	1106.3875	54.6644	174.00	29.00	0.5305	39.2215	3.6692
6.75	32.5	6.240	0.0941	9.41	0.9059	1110.6461	56.1835	174.00	29.00	0.5162	39.7278	3.6821
7.00	32.5	6.240	0.0976	9.76	0.9024	1114.9377	55.9673	172.00	27.00	0.4824	41.6558	3.7294
7.25	32.5	6.240	0.1011	10.11	0.8989	1119.2625	55.7510	172.00	27.00	0.4843	41.5837	3.7277
7.50	33.5	6.432	0.1046	10.46	0.8954	1123.6210	57.2435	172.00	27.00	0.4717	42.0812	3.7396
7.75	33.5	6.432	0.1081	10.81	0.8919	1128.0136	57.0206	172.00	27.00	0.4735	42.0069	3.7378
8.00	33.5	6.432	0.1116	11.16	0.8884	1132.4406	56.7977	172.00	27.00	0.4754	41.9326	3.7361
8.25	34.5	6.624	0.1151	11.51	0.8849	1136.9025	58.2636	170.00	25.00	0.4291	44.4212	3.7937
8.50	34.5	6.624	0.1185	11.85	0.8815	1141.3998	58.0340	170.00	25.00	0.4308	44.3447	3.7920
8.75	34.5	6.624	0.1220	12.20	0.8780	1145.9327	57.8044	170.00	25.00	0.4325	44.2681	3.7903
9.00	35.5	6.816	0.1255	12.55	0.8745	1150.5019	59.2437	170.00	25.00	0.4220	44.7479	3.8010
9.25	35.5	6.816	0.1290	12.90	0.8710	1155.1076	59.0075	170.00	25.00	0.4237	44.6692	3.7993
9.50	36.5	7.008	0.1325	13.25	0.8675	1159.7503	60.4268	170.00	25.00	0.4137	45.1423	3.8098
9.75	37.5	7.200	0.1360	13.60	0.8640	1164.4305	61.8328	168.00	23.00	0.3720	47.6109	3.8631
10.00	38.5	7.392	0.1395	13.95	0.8605	1169.1486	63.2255	168.00	23.00	0.3638	48.0752	3.8728
10.25	39.5	7.584	0.1430	14.30	0.8570	1173.9051	64.6049	168.00	23.00	0.3560	48.5350	3.8823
10.50	40.5	7.776	0.1464	14.64	0.8536	1178.7004	65.9710	166.00	21.00	0.3183	50.9903	3.9316
10.75	40.5	7.776	0.1499	14.99	0.8501	1183.5351	65.7015	166.00	21.00	0.3196	50.9005	3.9299
11.00	41.5	7.968	0.1534	15.34	0.8466	1188.4097	67.0476	166.00	21.00	0.3132	51.3492	3.9386
11.25	41.5	7.968	0.1569	15.69	0.8431	1193.3245	66.7714	164.00	19.00	0.2846	53.2571	3.9751
11.50	42.5	8.160	0.1604	16.04	0.8396	1198.2802	68.0976	164.00	19.00	0.2790	53.6992	3.9834
11.75	42.5	8.160	0.1639	16.39	0.8361	1203.2772	67.8148	164.00	19.00	0.2802	53.6049	3.9816
12.00	43.5	8.352	0.1674	16.74	0.8326	1208.3160	69.1210	162.00	17.00	0.2459	56.0403	4.0261
12.25	43.5	8.352	0.1709	17.09	0.8291	1213.3973	68.8315	162.00	17.00	0.2470	55.9438	4.0243
12.50	44.5	8.544	0.1743	17.43	0.8257	1218.5214	70.1178	162.00	17.00	0.2424	56.3726	4.0320
12.75	44.5	8.544	0.1778	17.78	0.8222	1223.6890	69.8217	158.00	13.00	0.1862	60.2739	4.0989
13.00	45.5	8.736	0.1813	18.13	0.8187	1228.9006	71.0879	158.00	13.00	0.1829	60.6960	4.1059
13.25	46.5	8.928	0.1848	18.48	0.8152	1234.1568	72.3409	158.00	13.00	0.1797	61.1136	4.1127
13.50	47.5	9.120	0.1883	18.83	0.8117	1239.4582	73.5805	156.00	11.00	0.1495	63.5268	4.1515
13.75	47.5	9.120	0.1918	19.18	0.8082	1244.8053	73.2645	156.00	11.00	0.1501	63.4215	4.1498
14.00	48.5	9.312	0.1953	19.53	0.8047	1250.1987	74.4842	156.00	11.00	0.1477	63.8281	4.1562
14.25	48.5	9.312	0.1987	19.87	0.8013	1255.6391	74.1614	154.00	9.00	0.1214	65.7205	4.1854
14.50	49.5	9.504	0.2022	20.22	0.7978	1261.1270	75.3612	154.00	9.00	0.1194	66.1204	4.1915
14.75	49.5	9.504	0.2057	20.57	0.7943	1266.6632	75.0318	154.00	9.00	0.1199	66.0106	4.1898
15.00	50.5	9.696	0.2092	20.92	0.7908	1272.2481	76.2116	152.00	7.00	0.0918	68.4039	4.2254

**Sampel 2 (  $\sigma_3' = 100 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 30% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A} \Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	145.00	0.00		100.0000	4.6052
0.25	21.5	4.128	0.0035	0.35	0.9965	1009.6076	40.8872	170.00	25.00	0.6114	88.6291	4.4845
0.50	27.5	5.280	0.0070	0.70	0.9930	1013.1526	52.1146	175.00	30.00	0.5757	87.3715	4.4702
0.75	32.5	6.240	0.0105	1.05	0.9895	1016.7226	61.3737	178.00	33.00	0.5377	87.4579	4.4712
1.00	37.5	7.200	0.0139	1.39	0.9861	1020.3178	70.5663	180.00	35.00	0.4960	88.5221	4.4833
1.25	41.0	7.872	0.0174	1.74	0.9826	1023.9385	76.8796	185.00	40.00	0.5203	85.6265	4.4500
1.50	42.8	8.218	0.0209	2.09	0.9791	1027.5850	79.9700	190.00	45.00	0.5627	81.6567	4.4025
1.75	45.0	8.640	0.0244	2.44	0.9756	1031.2576	83.7812	190.00	45.00	0.5371	82.9271	4.4180
2.00	48.0	9.216	0.0279	2.79	0.9721	1034.9565	89.0472	191.00	46.00	0.5166	83.6824	4.4270
2.25	50.5	9.696	0.0314	3.14	0.9686	1038.6820	93.3491	192.00	47.00	0.5035	84.1164	4.4322
2.50	53.0	10.176	0.0349	3.49	0.9651	1042.4345	97.6176	192.00	47.00	0.4815	85.5392	4.4490
2.75	55.0	10.560	0.0384	3.84	0.9616	1046.2142	100.9354	192.00	47.00	0.4656	86.6451	4.4618
3.00	57.0	10.944	0.0418	4.18	0.9582	1050.0213	104.2265	192.00	47.00	0.4509	87.7422	4.4744
3.25	58.0	11.136	0.0453	4.53	0.9547	1053.8563	105.6691	195.00	50.00	0.4732	85.2230	4.4453
3.50	59.0	11.328	0.0488	4.88	0.9512	1057.7195	107.0983	195.00	50.00	0.4669	85.6994	4.4508
3.75	60.0	11.520	0.0523	5.23	0.9477	1061.6110	108.5143	195.00	50.00	0.4608	86.1714	4.4563
4.00	60.2	11.558	0.0558	5.58	0.9442	1065.5313	108.4755	195.00	50.00	0.4609	86.1585	4.4562
4.25	61.8	11.866	0.0593	5.93	0.9407	1069.4806	110.9473	194.00	49.00	0.4417	87.9824	4.4771
4.50	63.0	12.096	0.0628	6.28	0.9372	1073.4593	112.6824	194.00	49.00	0.4349	88.5608	4.4837
4.75	65.0	12.480	0.0662	6.62	0.9338	1077.4678	115.8271	194.00	49.00	0.4230	89.6090	4.4955
5.00	67.0	12.864	0.0697	6.97	0.9303	1081.5062	118.9452	194.00	49.00	0.4120	90.6484	4.5070
5.25	68.0	13.056	0.0732	7.32	0.9268	1085.5751	120.2680	193.00	48.00	0.3991	92.0893	4.5228
5.50	68.5	13.152	0.0767	7.67	0.9233	1089.6747	120.6966	193.00	48.00	0.3977	92.2322	4.5243
5.75	68.5	13.152	0.0802	8.02	0.9198	1093.8054	120.2408	193.00	48.00	0.3992	92.0803	4.5227
6.00	68.9	13.229	0.0837	8.37	0.9163	1097.9675	120.4844	193.00	48.00	0.3984	92.1615	4.5235
6.25	68.5	13.152	0.0872	8.72	0.9128	1102.1614	119.3292	193.00	48.00	0.4022	91.7764	4.5194
6.50	68.8	13.210	0.0907	9.07	0.9093	1106.3875	119.3940	193.00	48.00	0.4020	91.7980	4.5196
6.75	69.0	13.248	0.0941	9.41	0.9059	1110.6461	119.2819	192.00	47.00	0.3940	92.7606	4.5300
7.00	69.8	13.402	0.0976	9.76	0.9024	1114.9377	120.2004	192.00	47.00	0.3910	93.0668	4.5333
7.25	70.8	13.594	0.1011	10.11	0.8989	1119.2625	121.4514	192.00	47.00	0.3870	93.4838	4.5378
7.50	72.0	13.824	0.1046	10.46	0.8954	1123.6210	123.0308	192.00	47.00	0.3820	94.0103	4.5434
7.75	73.0	14.016	0.1081	10.81	0.8919	1128.0136	124.2538	192.00	47.00	0.3783	94.4179	4.5477
8.00	73.0	14.016	0.1116	11.16	0.8884	1132.4406	123.7681	192.00	47.00	0.3797	94.2560	4.5460
8.25	73.0	14.016	0.1151	11.51	0.8849	1136.9025	123.2823	192.00	47.00	0.3812	94.0941	4.5443
8.50	72.5	13.920	0.1185	11.85	0.8815	1141.3998	121.9555	192.00	47.00	0.3854	93.6518	4.5396
8.75	72.0	13.824	0.1220	12.20	0.8780	1145.9327	120.6354	192.00	47.00	0.3896	93.2118	4.5349
9.00	72.5	13.920	0.1255	12.55	0.8745	1150.5019	120.9907	190.00	45.00	0.3719	95.3302	4.5573
9.25	72.8	13.978	0.1290	12.90	0.8710	1155.1076	121.0069	190.00	45.00	0.3719	95.3356	4.5574
9.50	73.5	14.112	0.1325	13.25	0.8675	1159.7503	121.6814	190.00	45.00	0.3698	95.5605	4.5598
9.75	73.8	14.170	0.1360	13.60	0.8640	1164.4305	121.6870	190.00	45.00	0.3698	95.5623	4.5598
10.00	75.0	14.400	0.1395	13.95	0.8605	1169.1486	123.1666	190.00	45.00	0.3654	96.0555	4.5649
10.25	75.0	14.400	0.1430	14.30	0.8570	1173.9051	122.6675	190.00	45.00	0.3668	95.8892	4.5632
10.50	75.1	14.419	0.1464	14.64	0.8536	1178.7004	122.3313	190.00	45.00	0.3679	95.7771	4.5620
10.75	75.0	14.400	0.1499	14.99	0.8501	1183.5351	121.6694	190.00	45.00	0.3699	95.5565	4.5597
11.00	74.1	14.227	0.1534	15.34	0.8466	1188.4097	119.7163	190.00	45.00	0.3759	94.9054	4.5529
11.25	74.0	14.208	0.1569	15.69	0.8431	1193.3245	119.0623	190.00	45.00	0.3780	94.6874	4.5506
11.50	74.0	14.208	0.1604	16.04	0.8396	1198.2802	118.5699	190.00	45.00	0.3795	94.5233	4.5488
11.75	74.0	14.208	0.1639	16.39	0.8361	1203.2772	118.0775	190.00	45.00	0.3811	94.3592	4.5471
12.00	74.4	14.285	0.1674	16.74	0.8326	1208.3160	118.2207	190.00	45.00	0.3806	94.4069	4.5476
12.25	75.0	14.400	0.1709	17.09	0.8291	1213.3973	118.6751	190.00	45.00	0.3792	94.5584	4.5492
12.50	75.0	14.400	0.1743	17.43	0.8257	1218.5214	118.1760	190.00	45.00	0.3808	94.3920	4.5475
12.75	75.0	14.400	0.1778	17.78	0.8222	1223.6890	117.6770	190.00	45.00	0.3824	94.2257	4.5457
13.00	75.0	14.400	0.1813	18.13	0.8187	1228.9006	117.1779	190.00	45.00	0.3840	94.0593	4.5439
13.25	74.2	14.246	0.1848	18.48	0.8152	1234.1568	115.4343	190.00	45.00	0.3898	93.4781	4.5377
13.50	74.0	14.208	0.1883	18.83	0.8117	1239.4582	114.6307	190.00	45.00	0.3926	93.2102	4.5349
13.75	74.0	14.208	0.1918	19.18	0.8082	1244.8053	114.1383	188.00	43.00	0.3767	95.0461	4.5544
14.00	74.0	14.208	0.1953	19.53	0.8047	1250.1987	113.6459	188.00	43.00	0.3784	94.8820	4.5526
14.25	74.0	14.208	0.1987	19.87	0.8013	1255.6391	113.1535	188.00	43.00	0.3800	94.7178	4.5509
14.50	74.0	14.208	0.2022	20.22	0.7978	1261.1270	112.6611	188.00	43.00	0.3817	94.5537	4.5492
14.75	74.0	14.208	0.2057	20.57	0.7943	1266.6632	112.1687	188.00	43.00	0.3834	94.3896	4.5474
15.00	74.0	14.208	0.2092	20.92	0.7908	1272.2481	111.6763	188.00	43.00	0.3850	94.2254	4.5457

**Sampel 3 (  $\sigma_3' = 150$  Kpa )**

Jenis Tanah : Soft Clay 30% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	133.00	0.00		150.0000	5.0106
0.25	16.0	3.072	0.0035	0.35	0.9965	1009.6076	30.4277	144.00	11.00	0.3615	149.1426	5.0049
0.50	30.5	5.856	0.0070	0.70	0.9930	1013.1526	57.7998	149.00	16.00	0.2768	153.2666	5.0322
0.75	35.5	6.816	0.0105	1.05	0.9895	1016.7226	67.0389	151.00	18.00	0.2685	154.3463	5.0392
1.00	47.0	9.024	0.0139	1.39	0.9861	1020.3178	88.4430	155.00	22.00	0.2487	157.4810	5.0593
1.25	54.0	10.368	0.0174	1.74	0.9826	1023.9385	101.2561	158.00	25.00	0.2469	158.7520	5.0673
1.50	60.5	11.616	0.0209	2.09	0.9791	1027.5850	113.0417	160.00	27.00	0.2388	160.6806	5.0794
1.75	65.0	12.480	0.0244	2.44	0.9756	1031.2576	121.0173	162.00	29.00	0.2396	161.3391	5.0835
2.00	69.5	13.344	0.0279	2.79	0.9721	1034.9565	128.9330	165.00	32.00	0.2482	160.9777	5.0813
2.25	72.0	13.824	0.0314	3.14	0.9686	1038.6820	133.0917	168.00	35.00	0.2630	159.3639	5.0712
2.50	74.0	14.208	0.0349	3.49	0.9651	1042.4345	136.2963	169.00	36.00	0.2641	159.4321	5.0716
2.75	75.0	14.400	0.0384	3.84	0.9616	1046.2142	137.6391	170.00	37.00	0.2688	158.8797	5.0681
3.00	76.0	14.592	0.0418	4.18	0.9582	1050.0213	138.9686	172.00	39.00	0.2806	157.3229	5.0583
3.25	77.2	14.822	0.0453	4.53	0.9547	1053.8563	140.6492	173.00	40.00	0.2844	156.8831	5.0555
3.50	78.8	15.130	0.0488	4.88	0.9512	1057.7195	143.0398	174.00	41.00	0.2866	156.6799	5.0542
3.75	80.2	15.398	0.0523	5.23	0.9477	1061.6110	145.0475	175.00	42.00	0.2896	156.3492	5.0521
4.00	82.0	15.744	0.0558	5.58	0.9442	1065.5313	147.7573	176.00	43.00	0.2910	156.2524	5.0515
4.25	83.0	15.936	0.0593	5.93	0.9407	1069.4806	149.0069	177.00	44.00	0.2953	155.6690	5.0477
4.50	84.0	16.128	0.0628	6.28	0.9372	1073.4593	150.2432	178.00	45.00	0.2995	155.0811	5.0439
4.75	84.5	16.224	0.0662	6.62	0.9338	1077.4678	150.3753	179.00	46.00	0.3055	154.1918	5.0382
5.00	84.8	16.282	0.0697	6.97	0.9303	1081.5062	150.5456	179.00	46.00	0.3056	154.1819	5.0381
5.25	85.0	16.320	0.0732	7.32	0.9268	1085.5751	150.3351	180.00	47.00	0.3126	153.1117	5.0312
5.50	86.5	16.608	0.0767	7.67	0.9233	1089.6747	152.4125	180.00	47.00	0.3084	153.8042	5.0357
5.75	88.2	16.934	0.0802	8.02	0.9198	1093.8054	154.8210	180.00	47.00	0.3036	154.6070	5.0409
6.00	90.0	17.280	0.0837	8.37	0.9163	1097.9675	157.3817	180.00	47.00	0.2986	155.4606	5.0464
6.25	91.2	17.510	0.0872	8.72	0.9128	1102.1614	158.8733	180.50	47.50	0.2990	155.4578	5.0464
6.50	92.0	17.664	0.0907	9.07	0.9093	1106.3875	159.6547	181.00	48.00	0.3006	155.2182	5.0448
6.75	92.8	17.818	0.0941	9.41	0.9059	1110.6461	160.4255	181.00	48.00	0.2992	155.4752	5.0465
7.00	94.0	18.048	0.0976	9.76	0.9024	1114.9377	161.8745	181.00	48.00	0.2965	155.9582	5.0496
7.25	94.5	18.144	0.1011	10.11	0.8989	1119.2625	162.1067	181.00	48.00	0.2961	156.0356	5.0501
7.50	94.8	18.202	0.1046	10.46	0.8954	1123.6210	161.9906	181.00	48.00	0.2963	155.9969	5.0498
7.75	96.0	18.432	0.1081	10.81	0.8919	1128.0136	163.4023	181.00	48.00	0.2938	156.4674	5.0528
8.00	97.0	18.624	0.1116	11.16	0.8884	1132.4406	164.4590	181.00	48.00	0.2919	156.8197	5.0551
8.25	98.2	18.854	0.1151	11.51	0.8849	1136.9025	165.8401	182.00	49.00	0.2955	156.2800	5.0516
8.50	100.0	19.200	0.1185	11.85	0.8815	1141.3998	168.2145	182.00	49.00	0.2913	157.0715	5.0567
8.75	101.2	19.430	0.1220	12.20	0.8780	1145.9327	169.5597	182.00	49.00	0.2890	157.5199	5.0596
9.00	102.0	19.584	0.1255	12.55	0.8745	1150.5019	170.2214	182.00	49.00	0.2879	157.7405	5.0610
9.25	102.2	19.622	0.1290	12.90	0.8710	1155.1076	169.8751	182.00	49.00	0.2884	157.6250	5.0602
9.50	102.4	19.661	0.1325	13.25	0.8675	1159.7503	169.5262	182.00	49.00	0.2890	157.5087	5.0595
9.75	102.4	19.661	0.1360	13.60	0.8640	1164.4305	168.8448	182.00	49.00	0.2902	157.2816	5.0580
10.00	103.0	19.776	0.1395	13.95	0.8605	1169.1486	169.1487	182.00	49.00	0.2897	157.3829	5.0587
10.25	104.0	19.968	0.1430	14.30	0.8570	1173.9051	170.0989	182.00	49.00	0.2881	157.6996	5.0607
10.50	104.9	20.141	0.1464	14.64	0.8536	1178.7004	170.8729	182.00	49.00	0.2868	157.9576	5.0623
10.75	105.0	20.160	0.1499	14.99	0.8501	1183.5351	170.3371	182.00	49.00	0.2877	157.7790	5.0612
11.00	105.7	20.294	0.1534	15.34	0.8466	1188.4097	170.7694	181.00	48.00	0.2811	158.9231	5.0684
11.25	107.8	20.698	0.1569	15.69	0.8431	1193.3245	173.4449	181.00	48.00	0.2767	159.8150	5.0740
11.50	107.9	20.717	0.1604	16.04	0.8396	1198.2802	172.8878	181.00	48.00	0.2776	159.6293	5.0729
11.75	108.0	20.736	0.1639	16.39	0.8361	1203.2772	172.3294	181.00	48.00	0.2785	159.4431	5.0717
12.00	108.0	20.736	0.1674	16.74	0.8326	1208.3160	171.6107	181.00	48.00	0.2797	159.2036	5.0702
12.25	108.0	20.736	0.1709	17.09	0.8291	1213.3973	170.8921	181.00	48.00	0.2809	158.9640	5.0687
12.50	108.0	20.736	0.1743	17.43	0.8257	1218.5214	170.1735	181.00	48.00	0.2821	158.7245	5.0672
12.75	108.5	20.832	0.1778	17.78	0.8222	1223.6890	170.2393	181.00	48.00	0.2820	158.7464	5.0673
13.00	110.0	21.120	0.1813	18.13	0.8187	1228.9006	171.8609	180.50	47.50	0.2764	159.7870	5.0738
13.25	110.5	21.216	0.1848	18.48	0.8152	1234.1568	171.9068	180.50	47.50	0.2763	159.8023	5.0739
13.50	111.0	21.312	0.1883	18.83	0.8117	1239.4582	171.9461	180.00	47.00	0.2733	160.3154	5.0771
13.75	111.2	21.350	0.1918	19.18	0.8082	1244.8053	171.5160	180.00	47.00	0.2740	160.1720	5.0762
14.00	111.0	21.312	0.1953	19.53	0.8047	1250.1987	170.4689	180.00	47.00	0.2757	159.8230	5.0741
14.25	110.7	21.254	0.1987	19.87	0.8013	1255.6391	169.2716	180.00	47.00	0.2777	159.4239	5.0716
14.50	110.7	21.254	0.2022	20.22	0.7978	1261.1270	168.5350	179.00	46.00	0.2729	160.1783	5.0763
14.75	110.3	21.178	0.2057	20.57	0.7943	1266.6632	167.1920	179.00	46.00	0.2751	159.7307	5.0735
15.00	110.3	21.178	0.2092	20.92	0.7908	1272.2481	166.4581	179.00	46.00	0.2763	159.4860	5.0720

DATA TRIAKSIAL KOMPRESI

Sampel 1 ( $\sigma_3' = 50 \text{ Kpa}$ )

Jenis Tanah : Soft Clay 30% With 1 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel ( $L_0$ ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{\sigma}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	135.00	0.00		50.0000	3.9120
0.25	35.0	6.720	0.0035	0.35	0.9965	1009.6076	66.5605	138.00	3.00	0.0451	69.1868	4.2368
0.50	39.0	7.488	0.0070	0.70	0.9930	1013.1526	73.9079	140.00	5.00	0.0677	69.6360	4.2433
0.75	41.0	7.872	0.0105	1.05	0.9895	1016.7226	77.4253	142.00	7.00	0.0904	68.8084	4.2313
1.00	42.0	8.064	0.0139	1.39	0.9861	1020.3178	79.0342	145.00	10.00	0.1265	66.3447	4.1949
1.25	43.0	8.256	0.0174	1.74	0.9826	1023.9385	80.6298	146.00	11.00	0.1364	65.8766	4.1878
1.50	44.0	8.448	0.0209	2.09	0.9791	1027.5850	82.2122	147.00	12.00	0.1460	65.4041	4.1806
1.75	45.0	8.640	0.0244	2.44	0.9756	1031.2576	83.7812	147.00	12.00	0.1432	65.9271	4.1885
2.00	46.0	8.832	0.0279	2.79	0.9721	1034.9565	85.3369	148.00	13.00	0.1523	65.4456	4.1812
2.25	47.0	9.024	0.0314	3.14	0.9686	1038.6820	86.8793	149.00	14.00	0.1611	64.9598	4.1738
2.50	48.0	9.216	0.0349	3.49	0.9651	1042.4345	88.4084	149.00	14.00	0.1584	65.4695	4.1816
2.75	49.0	9.408	0.0384	3.84	0.9616	1046.2142	89.9242	150.00	15.00	0.1668	64.9747	4.1740
3.00	50.0	9.600	0.0418	4.18	0.9582	1050.0213	91.4267	150.00	15.00	0.1641	65.4756	4.1817
3.25	51.5	9.888	0.0453	4.53	0.9547	1053.8563	93.8268	150.00	15.00	0.1599	66.2756	4.1938
3.50	53.0	10.176	0.0488	4.88	0.9512	1057.7195	96.2070	151.00	16.00	0.1663	66.0690	4.1907
3.75	54.0	10.368	0.0523	5.23	0.9477	1061.6110	97.6629	151.00	16.00	0.1638	66.5543	4.1980
4.00	55.7	10.694	0.0558	5.58	0.9442	1065.5313	100.3668	152.00	17.00	0.1694	66.4556	4.1965
4.25	57.0	10.944	0.0593	5.93	0.9407	1069.4806	102.3300	153.00	18.00	0.1759	66.1100	4.1913
4.50	58.0	11.136	0.0628	6.28	0.9372	1073.4593	103.7394	154.00	19.00	0.1832	65.5798	4.1833
4.75	58.7	11.270	0.0662	6.62	0.9338	1077.4678	104.6008	154.00	19.00	0.1816	65.8669	4.1876
5.00	59.4	11.405	0.0697	6.97	0.9303	1081.5062	105.4529	155.00	20.00	0.1897	65.1510	4.1767
5.25	60.0	11.520	0.0732	7.32	0.9268	1085.5751	106.1189	156.00	21.00	0.1979	64.3730	4.1647
5.50	60.5	11.616	0.0767	7.67	0.9233	1089.6747	106.6006	157.00	22.00	0.2064	63.5335	4.1516
5.75	61.0	11.712	0.0802	8.02	0.9198	1093.8054	107.0757	158.00	23.00	0.2148	62.6919	4.1382
6.00	61.6	11.827	0.0837	8.37	0.9163	1097.9675	107.7190	158.00	23.00	0.2135	62.9063	4.1416
6.25	62.3	11.962	0.0872	8.72	0.9128	1102.1614	108.5286	158.00	23.00	0.2119	63.1762	4.1459
6.50	62.8	12.058	0.0907	9.07	0.9093	1106.3875	108.9817	158.00	23.00	0.2110	63.3272	4.1483
6.75	63.5	12.192	0.0941	9.41	0.9059	1110.6461	109.7739	158.00	23.00	0.2095	63.5913	4.1525
7.00	64.0	12.288	0.0976	9.76	0.9024	1114.9377	110.2124	158.00	23.00	0.2087	63.7375	4.1548
7.25	64.6	12.403	0.1011	10.11	0.8989	1119.2625	110.8158	158.00	23.00	0.2076	63.9386	4.1579
7.50	65.0	12.480	0.1046	10.46	0.8954	1123.6210	111.0695	158.00	23.00	0.2071	64.0232	4.1592
7.75	65.4	12.557	0.1081	10.81	0.8919	1128.0136	111.3178	158.00	23.00	0.2066	64.1059	4.1605
8.00	65.8	12.634	0.1116	11.16	0.8884	1132.4406	111.5608	158.00	23.00	0.2062	64.1869	4.1618
8.25	66.2	12.710	0.1151	11.51	0.8849	1136.9025	111.7985	158.00	23.00	0.2057	64.2662	4.1630
8.50	66.5	12.768	0.1185	11.85	0.8815	1141.3998	111.8626	158.00	23.00	0.2056	64.2875	4.1634
8.75	66.8	12.826	0.1220	12.20	0.8780	1145.9327	111.9228	158.00	23.00	0.2055	64.3076	4.1637
9.00	67.0	12.864	0.1255	12.55	0.8745	1150.5019	111.8121	159.00	24.00	0.2146	63.2707	4.1474
9.25	67.0	12.864	0.1290	12.90	0.8710	1155.1076	111.3663	159.00	24.00	0.2155	63.1221	4.1451
9.50	67.0	12.864	0.1325	13.25	0.8675	1159.7503	110.9204	159.00	24.00	0.2164	62.9735	4.1427
9.75	67.0	12.864	0.1360	13.60	0.8640	1164.4305	110.4746	159.00	24.00	0.2172	62.8249	4.1404
10.00	66.0	12.672	0.1395	13.95	0.8605	1169.1486	108.3866	159.00	24.00	0.2214	62.1289	4.1292
10.25	65.0	12.480	0.1430	14.30	0.8570	1173.9051	106.3118	157.00	22.00	0.2069	63.4373	4.1501
10.50	65.0	12.480	0.1464	14.64	0.8536	1178.7004	105.8793	157.00	22.00	0.2078	63.2931	4.1478
10.75	65.0	12.480	0.1499	14.99	0.8501	1183.5351	105.4468	156.00	21.00	0.1992	64.1489	4.1612
11.00	64.0	12.288	0.1534	15.34	0.8466	1188.4097	103.3987	155.00	20.00	0.1934	64.4662	4.1661
11.25	64.0	12.288	0.1569	15.69	0.8431	1193.3245	102.9728	155.00	20.00	0.1942	64.3243	4.1639
11.50	64.0	12.288	0.1604	16.04	0.8396	1198.2802	102.5470	155.00	20.00	0.1950	64.1823	4.1617
11.75	64.0	12.288	0.1639	16.39	0.8361	1203.2772	102.1211	155.00	20.00	0.1958	64.0404	4.1595
12.00	64.0	12.288	0.1674	16.74	0.8326	1208.3160	101.6952	155.00	20.00	0.1967	63.8984	4.1573
12.25	64.0	12.288	0.1709	17.09	0.8291	1213.3973	101.2694	155.00	20.00	0.1975	63.7565	4.1551
12.50	64.0	12.288	0.1743	17.43	0.8257	1218.5214	100.8435	155.00	20.00	0.1983	63.6145	4.1528
12.75	63.0	12.096	0.1778	17.78	0.8222	1223.6890	98.8486	155.00	20.00	0.2023	62.9495	4.1423
13.00	63.0	12.096	0.1813	18.13	0.8187	1228.9006	98.4294	155.00	20.00	0.2032	62.8098	4.1401
13.25	63.0	12.096	0.1848	18.48	0.8152	1234.1568	98.0102	155.00	20.00	0.2041	62.6701	4.1379
13.50	63.0	12.096	0.1883	18.83	0.8117	1239.4582	97.5910	155.00	20.00	0.2049	62.5303	4.1357
13.75	63.0	12.096	0.1918	19.18	0.8082	1244.8053	97.1718	155.00	20.00	0.2058	62.3906	4.1334
14.00	63.0	12.096	0.1953	19.53	0.8047	1250.1987	96.7526	155.00	20.00	0.2067	62.2509	4.1312
14.25	63.0	12.096	0.1987	19.87	0.8013	1255.6391	96.3334	155.00	20.00	0.2076	62.1111	4.1289
14.50	63.0	12.096	0.2022	20.22	0.7978	1261.1270	95.9142	155.00	20.00	0.2085	61.9714	4.1267
14.75	63.0	12.096	0.2057	20.57	0.7943	1266.6632	95.4950	155.00	20.00	0.2094	61.8317	4.1244
15.00	63.0	12.096	0.2092	20.92	0.7908	1272.2481	95.0758	155.00	20.00	0.2104	61.6919	4.1222



**Sampel 2 ( $\sigma_3' = 100 \text{ Kpa}$ )**

Jenis Tanah : Soft Clay 30% With 1 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel ( $L_0$ ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A} \Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	94.00	0.00		100.0000	4.6052
0.25	44.5	8.544	0.0035	0.35	0.9965	1009.6076	84.6269	95.00	1.00	0.0118	127.2090	4.8458
0.50	58.5	11.232	0.0070	0.70	0.9930	1013.1526	110.8619	98.00	4.00	0.0361	132.9540	4.8900
0.75	66.5	12.768	0.0105	1.05	0.9895	1016.7226	125.5800	100.00	6.00	0.0478	135.8600	4.9116
1.00	72.0	13.824	0.0139	1.39	0.9861	1020.3178	135.4872	101.00	7.00	0.0517	138.1624	4.9284
1.25	76.5	14.688	0.0174	1.74	0.9826	1023.9385	143.4461	102.00	8.00	0.0558	139.8154	4.9403
1.50	80.5	15.456	0.0209	2.09	0.9791	1027.5850	150.4109	103.00	9.00	0.0598	141.1370	4.9497
1.75	85.0	16.320	0.0244	2.44	0.9756	1031.2576	158.2534	105.00	11.00	0.0695	141.7511	4.9541
2.00	87.5	16.800	0.0279	2.79	0.9721	1034.9565	162.3257	107.00	13.00	0.0801	141.1086	4.9495
2.25	92.0	17.664	0.0314	3.14	0.9686	1038.6820	170.0617	108.00	14.00	0.0823	142.6872	4.9607
2.50	94.5	18.144	0.0349	3.49	0.9651	1042.4345	174.0541	109.00	15.00	0.0862	143.0180	4.9630
2.75	96.5	18.528	0.0384	3.84	0.9616	1046.2142	177.0957	110.00	16.00	0.0903	143.0319	4.9631
3.00	98.0	18.816	0.0418	4.18	0.9582	1050.0213	179.1964	111.00	17.00	0.0949	142.7321	4.9610
3.25	100.5	19.296	0.0453	4.53	0.9547	1053.8563	183.0990	111.00	17.00	0.0928	144.0330	4.9700
3.50	102.0	19.584	0.0488	4.88	0.9512	1057.7195	185.1531	112.00	18.00	0.0972	143.7177	4.9679
3.75	104.0	19.968	0.0523	5.23	0.9477	1061.6110	188.0915	112.00	18.00	0.0957	144.6972	4.9746
4.00	105.0	20.160	0.0558	5.58	0.9442	1065.5313	189.2014	113.00	19.00	0.1004	144.0671	4.9703
4.25	106.5	20.448	0.0593	5.93	0.9407	1069.4806	191.1956	114.00	20.00	0.1046	143.7319	4.9679
4.50	107.0	20.544	0.0628	6.28	0.9372	1073.4593	191.3813	114.00	20.00	0.1045	143.7938	4.9684
4.75	108.5	20.832	0.0662	6.62	0.9338	1077.4678	193.3422	115.00	21.00	0.1086	143.4474	4.9660
5.00	110.0	21.120	0.0697	6.97	0.9303	1081.5062	195.2832	115.00	21.00	0.1075	144.0944	4.9705
5.25	110.5	21.216	0.0732	7.32	0.9268	1085.5751	195.4356	116.00	22.00	0.1126	143.1452	4.9639
5.50	111.5	21.408	0.0767	7.67	0.9233	1089.6747	196.4623	116.00	22.00	0.1120	143.4874	4.9662
5.75	112.0	21.504	0.0802	8.02	0.9198	1093.8054	196.5980	116.00	22.00	0.1119	143.5327	4.9666
6.00	112.5	21.600	0.0837	8.37	0.9163	1097.9675	196.7271	116.00	22.00	0.1118	143.5757	4.9669
6.25	113.0	21.696	0.0872	8.72	0.9128	1102.1614	196.8496	117.00	23.00	0.1168	142.6165	4.9602
6.50	113.4	21.773	0.0907	9.07	0.9093	1106.3875	196.7918	117.00	23.00	0.1169	142.5973	4.9600
6.75	113.8	21.850	0.0941	9.41	0.9059	1110.6461	196.7287	117.00	23.00	0.1169	142.5762	4.9599
7.00	114.2	21.926	0.0976	9.76	0.9024	1114.9377	196.6603	117.00	23.00	0.1170	142.5534	4.9597
7.25	114.5	21.984	0.1011	10.11	0.8989	1119.2625	196.4151	117.00	23.00	0.1171	142.4717	4.9591
7.50	114.8	22.042	0.1046	10.46	0.8954	1123.6210	196.1658	117.00	23.00	0.1172	142.3886	4.9586
7.75	115.0	22.080	0.1081	10.81	0.8919	1128.0136	195.7423	117.00	23.00	0.1175	142.2474	4.9576
8.00	115.2	22.118	0.1116	11.16	0.8884	1132.4406	195.3162	117.00	23.00	0.1178	142.1054	4.9566
8.25	115.4	22.157	0.1151	11.51	0.8849	1136.9025	194.8874	117.00	23.00	0.1180	141.9625	4.9556
8.50	115.5	22.176	0.1185	11.85	0.8815	1141.3998	194.2878	117.00	23.00	0.1184	141.7626	4.9542
8.75	116.0	22.272	0.1220	12.20	0.8780	1145.9327	194.3570	117.00	23.00	0.1183	141.7857	4.9543
9.00	116.5	22.368	0.1255	12.55	0.8745	1150.5019	194.4195	117.00	23.00	0.1183	141.8065	4.9545
9.25	117.0	22.464	0.1290	12.90	0.8710	1155.1076	194.4754	116.00	22.00	0.1131	142.8251	4.9616
9.50	117.0	22.464	0.1325	13.25	0.8675	1159.7503	193.6969	116.00	22.00	0.1136	142.5656	4.9598
9.75	117.0	22.464	0.1360	13.60	0.8640	1164.4305	192.9183	116.00	22.00	0.1140	142.3061	4.9580
10.00	117.0	22.464	0.1395	13.95	0.8605	1169.1486	192.1398	116.00	22.00	0.1145	142.0466	4.9562
10.25	117.0	22.464	0.1430	14.30	0.8570	1173.9051	191.3613	116.00	22.00	0.1150	141.7871	4.9543
10.50	117.0	22.464	0.1464	14.64	0.8536	1178.7004	190.5828	116.00	22.00	0.1154	141.5276	4.9525
10.75	117.0	22.464	0.1499	14.99	0.8501	1183.5351	189.8043	116.00	22.00	0.1159	141.2681	4.9507
11.00	117.0	22.464	0.1534	15.34	0.8466	1188.4097	189.0257	116.00	22.00	0.1164	141.0086	4.9488
11.25	117.0	22.464	0.1569	15.69	0.8431	1193.3245	188.2472	116.00	22.00	0.1169	140.7491	4.9470
11.50	117.0	22.464	0.1604	16.04	0.8396	1198.2802	187.4687	115.00	21.00	0.1120	141.4896	4.9522
11.75	117.0	22.464	0.1639	16.39	0.8361	1203.2772	186.6902	115.00	21.00	0.1125	141.2301	4.9504
12.00	117.0	22.464	0.1674	16.74	0.8326	1208.3160	185.9116	115.00	21.00	0.1130	140.9705	4.9486
12.25	117.0	22.464	0.1709	17.09	0.8291	1213.3973	185.1331	115.00	21.00	0.1134	140.7110	4.9467
12.50	117.0	22.464	0.1743	17.43	0.8257	1218.5214	184.3546	114.00	20.00	0.1085	141.4515	4.9520
12.75	117.0	22.464	0.1778	17.78	0.8222	1223.6890	183.5761	114.00	20.00	0.1089	141.1920	4.9501
13.00	117.0	22.464	0.1813	18.13	0.8187	1228.9006	182.7975	114.00	20.00	0.1094	140.9325	4.9483
13.25	117.0	22.464	0.1848	18.48	0.8152	1234.1568	182.0190	113.00	19.00	0.1044	141.6730	4.9535
13.50	117.0	22.464	0.1883	18.83	0.8117	1239.4582	181.2405	113.00	19.00	0.1048	141.4135	4.9517
13.75	119.0	22.848	0.1918	19.18	0.8082	1244.8053	183.5468	113.00	19.00	0.1035	142.1823	4.9571
14.00	120.0	23.040	0.1953	19.53	0.8047	1250.1987	184.2907	112.00	18.00	0.0977	143.4302	4.9658
14.25	120.0	23.040	0.1987	19.87	0.8013	1255.6391	183.4922	112.00	18.00	0.0981	143.1641	4.9640
14.50	119.0	22.848	0.2022	20.22	0.7978	1261.1270	181.1713	111.00	17.00	0.0938	143.3904	4.9656
14.75	118.0	22.656	0.2057	20.57	0.7943	1266.6632	178.8637	111.00	17.00	0.0950	142.6212	4.9602
15.00	117.0	22.464	0.2092	20.92	0.7908	1272.2481	176.5693	111.00	17.00	0.0963	141.8564	4.9548

**Sampel 3 ( $\sigma_3' = 150 \text{ Kpa}$ )**

Jenis Tanah : Soft Clay 30% With 1 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel ( $L_0$ ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A} \Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	137.00	0.00		150.0000	5.0106
0.25	53.0	10.176	0.0035	0.35	0.9965	1009.6076	100.7916	139.00	2.00	0.0198	181.5972	5.2018
0.50	59.0	11.328	0.0070	0.70	0.9930	1013.1526	111.8094	140.00	3.00	0.0268	184.2698	5.2164
0.75	65.0	12.480	0.0105	1.05	0.9895	1016.7226	122.7473	142.00	5.00	0.0407	185.9158	5.2253
1.00	70.5	13.536	0.0139	1.39	0.9861	1020.3178	132.6646	144.00	7.00	0.0528	187.2215	5.2323
1.25	76.5	14.688	0.0174	1.74	0.9826	1023.9385	143.4461	145.00	8.00	0.0558	189.8154	5.2461
1.50	80.5	15.456	0.0209	2.09	0.9791	1027.5850	150.4109	147.00	10.00	0.0665	190.1370	5.2477
1.75	85.0	16.320	0.0244	2.44	0.9756	1031.2576	158.2534	149.00	12.00	0.0758	190.7511	5.2510
2.00	90.5	17.376	0.0279	2.79	0.9721	1034.9565	167.8911	150.00	13.00	0.0774	192.9637	5.2625
2.25	95.0	18.240	0.0314	3.14	0.9686	1038.6820	175.6072	151.00	14.00	0.0797	194.5357	5.2706
2.50	100.5	19.296	0.0349	3.49	0.9651	1042.4345	185.1052	151.00	14.00	0.0756	197.7017	5.2868
2.75	105.0	20.160	0.0384	3.84	0.9616	1046.2142	192.6948	152.00	15.00	0.0778	199.2316	5.2945
3.00	109.0	20.928	0.0418	4.18	0.9582	1050.0213	199.3102	154.00	17.00	0.0853	199.4367	5.2955
3.25	112.0	21.504	0.0453	4.53	0.9547	1053.8563	204.0506	154.00	17.00	0.0833	201.0169	5.3034
3.50	115.0	22.080	0.0488	4.88	0.9512	1057.7195	208.7510	155.00	18.00	0.0862	201.5837	5.3062
3.75	118.0	22.656	0.0523	5.23	0.9477	1061.6110	213.4115	156.00	19.00	0.0890	202.1372	5.3089
4.00	121.0	23.232	0.0558	5.58	0.9442	1065.5313	218.0321	157.00	20.00	0.0917	202.6774	5.3116
4.25	124.0	23.808	0.0593	5.93	0.9407	1069.4806	222.6127	158.00	21.00	0.0943	203.2042	5.3142
4.50	127.0	24.384	0.0628	6.28	0.9372	1073.4593	227.1535	159.00	22.00	0.0969	203.7178	5.3167
4.75	130.0	24.960	0.0662	6.62	0.9338	1077.4678	231.6543	159.00	22.00	0.0950	205.2181	5.3241
5.00	132.0	25.344	0.0697	6.97	0.9303	1081.5062	234.3398	159.00	22.00	0.0939	206.1133	5.3284
5.25	134.0	25.728	0.0732	7.32	0.9268	1085.5751	236.9988	159.00	22.00	0.0928	206.9996	5.3327
5.50	135.0	25.920	0.0767	7.67	0.9233	1089.6747	237.8692	160.00	23.00	0.0967	206.2897	5.3293
5.75	136.0	26.112	0.0802	8.02	0.9198	1093.8054	238.7262	160.00	23.00	0.0963	206.5754	5.3307
6.00	137.0	26.304	0.0837	8.37	0.9163	1097.9675	239.5699	160.00	23.00	0.0960	206.8566	5.3320
6.25	138.0	26.496	0.0872	8.72	0.9128	1102.1614	240.4004	160.00	23.00	0.0957	207.1335	5.3334
6.50	139.0	26.688	0.0907	9.07	0.9093	1106.3875	241.2175	160.00	23.00	0.0953	207.4058	5.3347
6.75	140.0	26.880	0.0941	9.41	0.9059	1110.6461	242.0213	160.00	23.00	0.0950	207.6738	5.3360
7.00	141.0	27.072	0.0976	9.76	0.9024	1114.9377	242.8118	160.00	23.00	0.0947	207.9373	5.3372
7.25	142.0	27.264	0.1011	10.11	0.8989	1119.2625	243.5890	160.00	23.00	0.0944	208.1963	5.3385
7.50	143.0	27.456	0.1046	10.46	0.8954	1123.6210	244.3529	160.00	23.00	0.0941	208.4510	5.3397
7.75	144.0	27.648	0.1081	10.81	0.8919	1128.0136	245.1034	161.00	24.00	0.0979	207.7011	5.3361
8.00	145.0	27.840	0.1116	11.16	0.8884	1132.4406	245.8407	161.00	24.00	0.0976	207.9469	5.3373
8.25	146.0	28.032	0.1151	11.51	0.8849	1136.9025	246.5647	161.00	24.00	0.0973	208.1882	5.3384
8.50	147.0	28.224	0.1185	11.85	0.8815	1141.3998	247.2753	161.00	24.00	0.0971	208.4251	5.3396
8.75	148.0	28.416	0.1220	12.20	0.8780	1145.9327	247.9727	161.00	24.00	0.0968	208.6576	5.3407
9.00	149.0	28.608	0.1255	12.55	0.8745	1150.5019	248.6567	161.00	24.00	0.0965	208.8856	5.3418
9.25	150.0	28.800	0.1290	12.90	0.8710	1155.1076	249.3274	161.00	24.00	0.0963	209.1091	5.3429
9.50	151.0	28.992	0.1325	13.25	0.8675	1159.7503	249.9849	161.00	24.00	0.0960	209.3283	5.3439
9.75	152.0	29.184	0.1360	13.60	0.8640	1164.4305	250.6290	161.00	24.00	0.0958	209.5430	5.3449
10.00	153.0	29.376	0.1395	13.95	0.8605	1169.1486	251.2598	161.00	24.00	0.0955	209.7533	5.3459
10.25	153.0	29.376	0.1430	14.30	0.8570	1173.9051	250.2417	161.00	24.00	0.0959	209.4139	5.3443
10.50	154.0	29.568	0.1464	14.64	0.8536	1178.7004	250.8525	161.00	24.00	0.0957	209.6175	5.3453
10.75	153.0	29.376	0.1499	14.99	0.8501	1183.5351	248.2056	161.00	24.00	0.0967	208.7352	5.3411
11.00	153.0	29.376	0.1534	15.34	0.8466	1188.4097	247.1875	161.00	24.00	0.0971	208.3958	5.3394
11.25	152.0	29.184	0.1569	15.69	0.8431	1193.3245	244.5605	161.00	24.00	0.0981	207.5202	5.3352
11.50	152.0	29.184	0.1604	16.04	0.8396	1198.2802	243.5491	161.00	24.00	0.0985	207.1830	5.3336
11.75	151.0	28.992	0.1639	16.39	0.8361	1203.2772	240.9420	161.00	24.00	0.0996	206.3140	5.3294
12.00	151.0	28.992	0.1674	16.74	0.8326	1208.3160	239.9372	161.00	24.00	0.1000	205.9791	5.3278
12.25	150.0	28.800	0.1709	17.09	0.8291	1213.3973	237.3501	161.00	24.00	0.1011	205.1167	5.3236
12.50	150.0	28.800	0.1743	17.43	0.8257	1218.5214	236.3520	161.00	24.00	0.1015	204.7840	5.3220
12.75	149.0	28.608	0.1778	17.78	0.8222	1223.6890	233.7849	161.00	24.00	0.1027	203.9283	5.3178
13.00	149.0	28.608	0.1813	18.13	0.8187	1228.9006	232.7934	161.00	24.00	0.1031	203.5978	5.3161
13.25	148.0	28.416	0.1848	18.48	0.8152	1234.1568	230.2463	161.00	24.00	0.1042	202.7488	5.3120
13.50	148.0	28.416	0.1883	18.83	0.8117	1239.4582	229.2615	161.00	24.00	0.1047	202.4205	5.3103
13.75	147.0	28.224	0.1918	19.18	0.8082	1244.8053	226.7343	161.00	24.00	0.1059	201.5781	5.3062
14.00	147.0	28.224	0.1953	19.53	0.8047	1250.1987	225.7561	161.00	24.00	0.1063	201.2520	5.3046
14.25	146.0	28.032	0.1987	19.87	0.8013	1255.6391	223.2489	160.00	23.00	0.1030	201.4163	5.3054
14.50	146.0	28.032	0.2022	20.22	0.7978	1261.1270	222.2774	160.00	23.00	0.1035	201.0925	5.3038
14.75	145.0	27.840	0.2057	20.57	0.7943	1266.6632	219.7901	160.00	23.00	0.1046	200.2634	5.2996
15.00	145.0	27.840	0.2092	20.92	0.7908	1272.2481	218.8252	160.00	23.00	0.1051	199.9417	5.2980

DATA TRIAKSIAL KOMPRESI

**Sampel 1 (  $\sigma_3' = 50$  Kpa )**

Jenis Tanah : Soft Clay 30% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	89.00	0.00		50.0000	3.9120
0.25	15.5	2.976	0.0035	0.35	0.9965	1009.6076	29.4768	101.00	12.00	0.4071	47.8256	3.8676
0.50	19.0	3.648	0.0070	0.70	0.9930	1013.1526	36.0064	103.00	14.00	0.3888	48.0021	3.8712
0.75	22.5	4.320	0.0105	1.05	0.9895	1016.7226	42.4895	105.00	16.00	0.3766	48.1632	3.8746
1.00	25.5	4.896	0.0139	1.39	0.9861	1020.3178	47.9851	106.00	17.00	0.3543	48.9950	3.8917
1.25	27.0	5.184	0.0174	1.74	0.9826	1023.9385	50.6280	107.00	18.00	0.3555	48.8760	3.8893
1.50	30.5	5.856	0.0209	2.09	0.9791	1027.5850	56.9880	108.00	19.00	0.3334	49.9960	3.9119
1.75	34.0	6.528	0.0244	2.44	0.9756	1031.2576	63.3014	108.00	19.00	0.3002	52.1005	3.9532
2.00	35.5	6.816	0.0279	2.79	0.9721	1034.9565	65.8578	108.00	19.00	0.2885	52.9526	3.9694
2.25	36.5	7.008	0.0314	3.14	0.9686	1038.6820	67.4701	108.00	19.00	0.2816	53.4900	3.9795
2.50	37.5	7.200	0.0349	3.49	0.9651	1042.4345	69.0691	109.00	20.00	0.2896	53.0230	3.9707
2.75	38.5	7.392	0.0384	3.84	0.9616	1046.2142	70.6547	109.00	20.00	0.2831	53.5516	3.9806
3.00	39.5	7.584	0.0418	4.18	0.9582	1050.0213	72.2271	109.00	20.00	0.2769	54.0757	3.9904
3.25	40.5	7.776	0.0453	4.53	0.9547	1053.8563	73.7861	109.00	20.00	0.2711	54.5954	3.9999
3.50	41.5	7.968	0.0488	4.88	0.9512	1057.7195	75.3319	109.00	20.00	0.2655	55.1106	4.0093
3.75	42.5	8.160	0.0523	5.23	0.9477	1061.6110	76.8643	109.00	20.00	0.2602	55.6214	4.0186
4.00	43.5	8.352	0.0558	5.58	0.9442	1065.5313	78.3834	109.00	20.00	0.2552	56.1278	4.0276
4.25	44.5	8.544	0.0593	5.93	0.9407	1069.4806	79.8892	109.00	20.00	0.2503	56.6297	4.0365
4.50	45.5	8.736	0.0628	6.28	0.9372	1073.4593	81.3818	109.00	20.00	0.2458	57.1273	4.0453
4.75	46.0	8.832	0.0662	6.62	0.9338	1077.4678	81.9700	109.00	20.00	0.2440	57.3233	4.0487
5.00	46.5	8.928	0.0697	6.97	0.9303	1081.5062	82.5515	109.00	20.00	0.2423	57.5172	4.0521
5.25	46.5	8.928	0.0732	7.32	0.9268	1085.5751	82.2421	109.00	20.00	0.2432	57.4140	4.0503
5.50	46.5	8.928	0.0767	7.67	0.9233	1089.6747	81.9327	109.00	20.00	0.2441	57.3109	4.0485
5.75	47.0	9.024	0.0802	8.02	0.9198	1093.8054	82.5010	108.00	19.00	0.2303	58.5003	4.0690
6.00	47.0	9.024	0.0837	8.37	0.9163	1097.9675	82.1882	108.00	19.00	0.2312	58.3961	4.0672
6.25	48.0	9.216	0.0872	8.72	0.9128	1102.1614	83.6175	108.00	19.00	0.2272	58.8725	4.0754
6.50	48.5	9.312	0.0907	9.07	0.9093	1106.3875	84.1658	108.00	19.00	0.2257	59.0553	4.0785
6.75	49.0	9.408	0.0941	9.41	0.9059	1110.6461	84.7074	107.00	18.00	0.2125	60.2358	4.0983
7.00	50.0	9.600	0.0976	9.76	0.9024	1114.9377	86.1035	107.00	18.00	0.2091	60.7012	4.1060
7.25	50.5	9.696	0.1011	10.11	0.8989	1119.2625	86.6285	107.00	18.00	0.2078	60.8762	4.1088
7.50	50.5	9.696	0.1046	10.46	0.8954	1123.6210	86.2924	107.00	18.00	0.2086	60.7641	4.1070
7.75	50.5	9.696	0.1081	10.81	0.8919	1128.0136	85.9564	106.00	17.00	0.1978	61.6521	4.1215
8.00	51.0	9.792	0.1116	11.16	0.8884	1132.4406	86.4681	106.00	17.00	0.1966	61.8227	4.1243
8.25	51.2	9.830	0.1151	11.51	0.8849	1136.9025	86.4665	106.00	17.00	0.1966	61.8222	4.1243
8.50	51.8	9.946	0.1185	11.85	0.8815	1141.3998	87.1351	106.00	17.00	0.1951	62.0450	4.1279
8.75	52.0	9.984	0.1220	12.20	0.8780	1145.9327	87.1255	106.00	17.00	0.1951	62.0418	4.1278
9.00	52.5	10.080	0.1255	12.55	0.8745	1150.5019	87.6139	106.00	17.00	0.1940	62.2046	4.1304
9.25	53.0	10.176	0.1290	12.90	0.8710	1155.1076	88.0957	105.00	16.00	0.1816	63.3652	4.1489
9.50	53.2	10.214	0.1325	13.25	0.8675	1159.7503	88.0741	105.00	16.00	0.1817	63.3580	4.1488
9.75	53.4	10.253	0.1360	13.60	0.8640	1164.4305	88.0499	105.00	16.00	0.1817	63.3500	4.1487
10.00	53.4	10.253	0.1395	13.95	0.8605	1169.1486	87.6946	105.00	16.00	0.1825	63.2315	4.1468
10.25	53.4	10.253	0.1430	14.30	0.8570	1173.9051	87.3393	105.00	16.00	0.1832	63.1131	4.1449
10.50	53.5	10.272	0.1464	14.64	0.8536	1178.7004	87.1468	105.00	16.00	0.1836	63.0489	4.1439
10.75	53.5	10.272	0.1499	14.99	0.8501	1183.5351	86.7908	104.00	15.00	0.1728	63.9303	4.1578
11.00	53.5	10.272	0.1534	15.34	0.8466	1188.4097	86.4348	103.00	14.00	0.1620	64.8116	4.1715
11.25	53.6	10.291	0.1569	15.69	0.8431	1193.3245	86.2397	103.00	14.00	0.1623	64.7466	4.1705
11.50	53.8	10.330	0.1604	16.04	0.8396	1198.2802	86.2035	103.00	14.00	0.1624	64.7345	4.1703
11.75	54.0	10.368	0.1639	16.39	0.8361	1203.2772	86.1647	102.00	13.00	0.1509	65.7216	4.1854
12.00	54.0	10.368	0.1674	16.74	0.8326	1208.3160	85.8054	102.00	13.00	0.1515	65.6018	4.1836
12.25	54.0	10.368	0.1709	17.09	0.8291	1213.3973	85.4460	102.00	13.00	0.1521	65.4820	4.1818
12.50	54.0	10.368	0.1743	17.43	0.8257	1218.5214	85.0867	102.00	13.00	0.1528	65.3622	4.1799
12.75	54.0	10.368	0.1778	17.78	0.8222	1223.6890	84.7274	102.00	13.00	0.1534	65.2425	4.1781
13.00	54.0	10.368	0.1813	18.13	0.8187	1228.9006	84.3681	102.00	13.00	0.1541	65.1227	4.1763
13.25	54.0	10.368	0.1848	18.48	0.8152	1234.1568	84.0088	102.00	13.00	0.1547	65.0029	4.1744
13.50	54.0	10.368	0.1883	18.83	0.8117	1239.4582	83.6495	102.00	13.00	0.1554	64.8832	4.1726
13.75	54.0	10.368	0.1918	19.18	0.8082	1244.8053	83.2901	101.00	12.00	0.1441	65.7634	4.1861
14.00	54.0	10.368	0.1953	19.53	0.8047	1250.1987	82.9308	101.00	12.00	0.1447	65.6436	4.1842
14.25	54.0	10.368	0.1987	19.87	0.8013	1255.6391	82.5715	101.00	12.00	0.1453	65.5238	4.1824
14.50	53.5	10.272	0.2022	20.22	0.7978	1261.1270	81.4510	101.00	12.00	0.1473	65.1503	4.1767
14.75	53.5	10.272	0.2057	20.57	0.7943	1266.6632	81.0950	101.00	12.00	0.1480	65.0317	4.1749
15.00	53.0	10.176	0.2092	20.92	0.7908	1272.2481	79.9844	101.00	12.00	0.1500	64.6615	4.1692

**Sampel 2 ( $\sigma_3' = 100 \text{ Kpa}$ )**

Jenis Tanah : Soft Clay 30% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel ( $L_0$ ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	138.00	0.00		100.0000	4.6052
0.25	25.0	4.800	0.0035	0.35	0.9965	1009.6076	47.5432	140.00	2.00	0.0421	113.8477	4.7349
0.50	30.0	5.760	0.0070	0.70	0.9930	1013.1526	56.8522	142.00	4.00	0.0704	114.9507	4.7445
0.75	35.0	6.720	0.0105	1.05	0.9895	1016.7226	66.0947	144.00	6.00	0.0908	116.0316	4.7539
1.00	40.0	7.680	0.0139	1.39	0.9861	1020.3178	75.2707	146.00	8.00	0.1063	117.0902	4.7629
1.25	45.0	8.640	0.0174	1.74	0.9826	1023.9385	84.3801	148.00	10.00	0.1185	118.1267	4.7718
1.50	50.0	9.600	0.0209	2.09	0.9791	1027.5850	93.4229	149.00	11.00	0.1177	120.1410	4.7887
1.75	55.0	10.560	0.0244	2.44	0.9756	1031.2576	102.3992	149.00	11.00	0.1074	123.1331	4.8133
2.00	55.0	10.560	0.0279	2.79	0.9721	1034.9565	102.0333	149.00	11.00	0.1078	123.0111	4.8123
2.25	55.0	10.560	0.0314	3.14	0.9686	1038.6820	101.6673	149.00	11.00	0.1082	122.8891	4.8113
2.50	55.0	10.560	0.0349	3.49	0.9651	1042.4345	101.3013	149.00	11.00	0.1086	122.7671	4.8103
2.75	60.0	11.520	0.0384	3.84	0.9616	1046.2142	110.1113	149.00	11.00	0.0999	125.7038	4.8339
3.00	60.0	11.520	0.0418	4.18	0.9582	1050.0213	109.7121	149.00	11.00	0.1003	125.5707	4.8329
3.25	60.0	11.520	0.0453	4.53	0.9547	1053.8563	109.3128	148.00	10.00	0.0915	126.4376	4.8397
3.50	60.0	11.520	0.0488	4.88	0.9512	1057.7195	108.9136	148.00	10.00	0.0918	126.3045	4.8387
3.75	65.0	12.480	0.0523	5.23	0.9477	1061.6110	117.5572	148.00	10.00	0.0851	129.1857	4.8613
4.00	65.0	12.480	0.0558	5.58	0.9442	1065.5313	117.1247	148.00	10.00	0.0854	129.0416	4.8601
4.25	70.0	13.440	0.0593	5.93	0.9407	1069.4806	125.6685	148.00	10.00	0.0796	131.8895	4.8820
4.50	70.0	13.440	0.0628	6.28	0.9372	1073.4593	125.2027	148.00	10.00	0.0799	131.7342	4.8808
4.75	72.0	13.824	0.0662	6.62	0.9338	1077.4678	128.3008	148.00	10.00	0.0779	132.7669	4.8886
5.00	72.0	13.824	0.0697	6.97	0.9303	1081.5062	127.8217	148.00	10.00	0.0782	132.6072	4.8874
5.25	74.0	14.208	0.0732	7.32	0.9268	1085.5751	130.8799	147.00	9.00	0.0688	134.6266	4.9025
5.50	74.0	14.208	0.0767	7.67	0.9233	1089.6747	130.3875	147.00	9.00	0.0690	134.4625	4.9013
5.75	76.0	14.592	0.0802	8.02	0.9198	1093.8054	133.4058	146.00	8.00	0.0600	136.4686	4.9161
6.00	76.0	14.592	0.0837	8.37	0.9163	1097.9675	132.9001	146.00	8.00	0.0602	136.3000	4.9149
6.25	78.0	14.976	0.0872	8.72	0.9128	1102.1614	135.8785	145.00	7.00	0.0515	138.2928	4.9294
6.50	78.0	14.976	0.0907	9.07	0.9093	1106.3875	135.3594	145.00	7.00	0.0517	138.1198	4.9281
6.75	80.0	15.360	0.0941	9.41	0.9059	1110.6461	138.2979	145.00	7.00	0.0506	139.0993	4.9352
7.00	80.0	15.360	0.0976	9.76	0.9024	1114.9377	137.7656	145.00	7.00	0.0508	138.9219	4.9339
7.25	82.0	15.744	0.1011	10.11	0.8989	1119.2625	140.6641	145.00	7.00	0.0498	139.8880	4.9408
7.50	82.0	15.744	0.1046	10.46	0.8954	1123.6210	140.1184	145.00	7.00	0.0500	139.7061	4.9395
7.75	84.0	16.128	0.1081	10.81	0.8919	1128.0136	142.9770	145.00	7.00	0.0490	140.6590	4.9463
8.00	86.0	16.512	0.1116	11.16	0.8884	1132.4406	145.8090	145.00	7.00	0.0480	141.6030	4.9530
8.25	88.0	16.896	0.1151	11.51	0.8849	1136.9025	148.6143	145.00	7.00	0.0471	142.5381	4.9596
8.50	88.0	16.896	0.1185	11.85	0.8815	1141.3998	148.0288	145.00	7.00	0.0473	142.3429	4.9582
8.75	90.0	17.280	0.1220	12.20	0.8780	1145.9327	150.7942	145.00	7.00	0.0464	143.2647	4.9647
9.00	90.0	17.280	0.1255	12.55	0.8745	1150.5019	150.1953	144.00	6.00	0.0399	144.0651	4.9703
9.25	92.0	17.664	0.1290	12.90	0.8710	1155.1076	152.9208	144.00	6.00	0.0392	144.9736	4.9766
9.50	92.0	17.664	0.1325	13.25	0.8675	1159.7503	152.3087	144.00	6.00	0.0394	144.7696	4.9751
9.75	94.0	18.048	0.1360	13.60	0.8640	1164.4305	154.9942	144.00	6.00	0.0387	145.6647	4.9813
10.00	94.0	18.048	0.1395	13.95	0.8605	1169.1486	154.3687	144.00	6.00	0.0389	145.4562	4.9799
10.25	96.0	18.432	0.1430	14.30	0.8570	1173.9051	157.0144	144.00	6.00	0.0382	146.3381	4.9859
10.50	96.0	18.432	0.1464	14.64	0.8536	1178.7004	156.3756	144.00	6.00	0.0384	146.1252	4.9845
10.75	98.0	18.816	0.1499	14.99	0.8501	1183.5351	158.9813	144.00	6.00	0.0377	146.9938	4.9904
11.00	98.0	18.816	0.1534	15.34	0.8466	1188.4097	158.3292	143.00	5.00	0.0316	147.7764	4.9957
11.25	100.0	19.200	0.1569	15.69	0.8431	1193.3245	160.8950	143.00	5.00	0.0311	148.6317	5.0015
11.50	102.0	19.584	0.1604	16.04	0.8396	1198.2802	163.4342	143.00	5.00	0.0306	149.4781	5.0071
11.75	104.0	19.968	0.1639	16.39	0.8361	1203.2772	165.9468	143.00	5.00	0.0301	150.3156	5.0127
12.00	106.0	20.352	0.1674	16.74	0.8326	1208.3160	168.4328	143.00	5.00	0.0297	151.1443	5.0182
12.25	108.0	20.736	0.1709	17.09	0.8291	1213.3973	170.8921	143.00	5.00	0.0293	151.9640	5.0236
12.50	110.0	21.120	0.1743	17.43	0.8257	1218.5214	173.3248	143.00	5.00	0.0288	152.7749	5.0290
12.75	112.0	21.504	0.1778	17.78	0.8222	1223.6890	175.7309	143.00	5.00	0.0285	153.5770	5.0342
13.00	114.0	21.888	0.1813	18.13	0.8187	1228.9006	178.1104	142.00	4.00	0.0225	155.3701	5.0458
13.25	116.0	22.272	0.1848	18.48	0.8152	1234.1568	180.4633	142.00	4.00	0.0222	156.1544	5.0508
13.50	118.0	22.656	0.1883	18.83	0.8117	1239.4582	182.7895	142.00	4.00	0.0219	156.9298	5.0558
13.75	120.0	23.040	0.1918	19.18	0.8082	1244.8053	185.0892	142.00	4.00	0.0216	157.6964	5.0607
14.00	119.0	22.848	0.1953	19.53	0.8047	1250.1987	182.7549	142.00	4.00	0.0219	156.9183	5.0557
14.25	118.0	22.656	0.1987	19.87	0.8013	1255.6391	180.4340	142.00	4.00	0.0222	156.1447	5.0508
14.50	117.0	22.464	0.2022	20.22	0.7978	1261.1270	178.1264	142.00	4.00	0.0225	155.3755	5.0458
14.75	116.0	22.272	0.2057	20.57	0.7943	1266.6632	175.8321	142.00	4.00	0.0227	154.6107	5.0409
15.00	115.0	22.080	0.2092	20.92	0.7908	1272.2481	173.5511	142.00	4.00	0.0230	153.8504	5.0360



**Sampel 3 (  $\sigma_3' = 150$  Kpa )**

Jenis Tanah : Soft Clay 30% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure $U$ (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	145.00	0.00		150.0000	5.0106
0.25	41.0	7.872	0.0035	0.35	0.9965	1009.6076	77.9709	172.00	27.00	0.3463	148.9903	5.0039
0.50	56.0	10.752	0.0070	0.70	0.9930	1013.1526	106.1242	174.00	29.00	0.2733	156.3747	5.0523
0.75	67.0	12.864	0.0105	1.05	0.9895	1016.7226	126.5242	180.00	35.00	0.2766	157.1747	5.0574
1.00	75.0	14.400	0.0139	1.39	0.9861	1020.3178	141.1325	186.00	41.00	0.2905	156.0442	5.0501
1.25	82.0	15.744	0.0174	1.74	0.9826	1023.9385	153.7592	189.00	44.00	0.2862	157.2531	5.0579
1.50	88.5	16.992	0.0209	2.09	0.9791	1027.5850	165.3586	191.00	46.00	0.2782	159.1195	5.0697
1.75	95.0	18.240	0.0244	2.44	0.9756	1031.2576	176.8714	192.00	47.00	0.2657	161.9571	5.0873
2.00	99.0	19.008	0.0279	2.79	0.9721	1034.9565	183.6599	192.00	47.00	0.2559	164.2200	5.1012
2.25	102.5	19.680	0.0314	3.14	0.9686	1038.6820	189.4709	192.00	47.00	0.2481	166.1570	5.1129
2.50	106.5	20.448	0.0349	3.49	0.9651	1042.4345	196.1562	192.00	47.00	0.2396	168.3854	5.1263
2.75	109.5	21.024	0.0384	3.84	0.9616	1046.2142	200.9531	192.00	47.00	0.2339	169.9844	5.1357
3.00	112.0	21.504	0.0418	4.18	0.9582	1050.0213	204.7958	192.00	47.00	0.2295	171.2653	5.1432
3.25	114.0	21.888	0.0453	4.53	0.9547	1053.8563	207.6943	192.00	47.00	0.2263	172.2314	5.1488
3.50	116.0	22.272	0.0488	4.88	0.9512	1057.7195	210.5662	191.00	46.00	0.2185	174.1887	5.1601
3.75	118.0	22.656	0.0523	5.23	0.9477	1061.6110	213.4115	191.00	46.00	0.2155	173.1372	5.1656
4.00	119.0	22.848	0.0558	5.58	0.9442	1065.5313	214.4282	191.00	46.00	0.2145	175.4761	5.1675
4.25	120.5	23.136	0.0593	5.93	0.9407	1069.4806	216.3293	190.00	45.00	0.2080	177.1098	5.1768
4.50	121.5	23.328	0.0628	6.28	0.9372	1073.4593	217.3161	190.00	45.00	0.2071	177.4387	5.1786
4.75	122.0	23.424	0.0662	6.62	0.9338	1077.4678	217.3986	190.00	45.00	0.2070	177.4662	5.1788
5.00	122.0	23.424	0.0697	6.97	0.9303	1081.5062	216.5868	190.00	45.00	0.2078	177.1956	5.1773
5.25	124.5	23.904	0.0732	7.32	0.9268	1085.5751	220.1966	190.00	45.00	0.2044	178.3989	5.1840
5.50	126.0	24.192	0.0767	7.67	0.9233	1089.6747	222.0112	190.00	45.00	0.2027	179.0037	5.1874
5.75	127.0	24.384	0.0802	8.02	0.9198	1093.8054	222.9281	190.00	45.00	0.2019	179.3094	5.1891
6.00	128.0	24.576	0.0837	8.37	0.9163	1097.9675	223.8318	190.00	45.00	0.2010	179.6106	5.1908
6.25	129.0	24.768	0.0872	8.72	0.9128	1102.1614	224.7221	190.00	45.00	0.2002	179.9074	5.1924
6.50	130.0	24.960	0.0907	9.07	0.9093	1106.3875	225.5991	190.00	45.00	0.1995	180.1997	5.1941
6.75	131.0	25.152	0.0941	9.41	0.9059	1110.6461	226.4628	189.00	44.00	0.1943	181.4876	5.2012
7.00	132.0	25.344	0.0976	9.76	0.9024	1114.9377	227.3132	189.00	44.00	0.1936	181.7711	5.2027
7.25	132.0	25.344	0.1011	10.11	0.8989	1119.2625	226.4348	189.00	44.00	0.1943	181.4783	5.2011
7.50	132.0	25.344	0.1046	10.46	0.8954	1123.6210	225.5565	188.00	43.00	0.1906	182.1855	5.2050
7.75	132.0	25.344	0.1081	10.81	0.8919	1128.0136	224.6782	188.00	43.00	0.1914	181.8927	5.2034
8.00	132.0	25.344	0.1116	11.16	0.8884	1132.4406	223.7998	188.00	43.00	0.1921	181.5999	5.2018
8.25	132.0	25.344	0.1151	11.51	0.8849	1136.9025	222.9215	188.00	43.00	0.1929	181.3072	5.2002
8.50	132.0	25.344	0.1185	11.85	0.8815	1141.3998	222.0431	188.00	43.00	0.1937	181.0144	5.1986
8.75	136.0	26.112	0.1220	12.20	0.8780	1145.9327	227.8668	188.00	43.00	0.1887	182.9556	5.2092
9.00	136.0	26.112	0.1255	12.55	0.8745	1150.5019	226.9618	188.00	43.00	0.1895	182.6539	5.2076
9.25	136.5	26.208	0.1290	12.90	0.8710	1155.1076	226.8880	188.00	43.00	0.1895	182.6293	5.2075
9.50	136.5	26.208	0.1325	13.25	0.8675	1159.7503	225.9797	185.00	40.00	0.1770	185.3266	5.2221
9.75	138.0	26.496	0.1360	13.60	0.8640	1164.4305	227.5447	185.00	40.00	0.1758	185.8482	5.2249
10.00	139.5	26.784	0.1395	13.95	0.8605	1169.1486	229.0898	184.00	39.00	0.1702	187.3633	5.2330
10.25	140.0	26.880	0.1430	14.30	0.8570	1173.9051	228.9793	184.00	39.00	0.1703	187.3264	5.2329
10.50	140.0	26.880	0.1464	14.64	0.8536	1178.7004	228.0478	184.00	39.00	0.1710	187.0159	5.2312
10.75	140.0	26.880	0.1499	14.99	0.8501	1183.5351	227.1162	184.00	39.00	0.1717	186.7054	5.2295
11.00	140.0	26.880	0.1534	15.34	0.8466	1188.4097	226.1846	183.00	38.00	0.1680	187.3949	5.2332
11.25	140.0	26.880	0.1569	15.69	0.8431	1193.3245	225.2531	183.00	38.00	0.1687	187.0844	5.2316
11.50	140.5	26.976	0.1604	16.04	0.8396	1198.2802	225.1226	183.00	38.00	0.1688	187.0409	5.2313
11.75	140.5	26.976	0.1639	16.39	0.8361	1203.2772	224.1877	183.00	38.00	0.1695	186.7292	5.2297
12.00	141.0	27.072	0.1674	16.74	0.8326	1208.3160	224.0473	183.00	38.00	0.1696	186.6824	5.2294
12.25	142.0	27.264	0.1709	17.09	0.8291	1213.3973	224.6915	183.00	38.00	0.1691	186.8972	5.2306
12.50	142.0	27.264	0.1743	17.43	0.8257	1218.5214	223.7466	183.00	38.00	0.1698	186.5822	5.2289
12.75	142.0	27.264	0.1778	17.78	0.8222	1223.6890	222.8017	182.00	37.00	0.1661	187.2672	5.2325
13.00	142.0	27.264	0.1813	18.13	0.8187	1228.9006	221.8568	182.00	37.00	0.1668	186.9523	5.2309
13.25	142.0	27.264	0.1848	18.48	0.8152	1234.1568	220.9120	182.00	37.00	0.1675	186.6373	5.2292
13.50	144.0	27.648	0.1883	18.83	0.8117	1239.4582	223.0652	182.00	37.00	0.1659	187.3551	5.2330
13.75	144.5	27.744	0.1918	19.18	0.8082	1244.8053	222.8782	182.00	37.00	0.1660	187.2927	5.2327
14.00	144.5	27.744	0.1953	19.53	0.8047	1250.1987	221.9167	180.00	35.00	0.1577	188.9722	5.2416
14.25	144.5	27.744	0.1987	19.87	0.8013	1255.6391	220.9552	180.00	35.00	0.1584	188.6517	5.2399
14.50	144.5	27.744	0.2022	20.22	0.7978	1261.1270	219.9937	180.00	35.00	0.1591	188.3312	5.2382
14.75	144.5	27.744	0.2057	20.57	0.7943	1266.6632	219.0322	180.00	35.00	0.1598	188.0107	5.2365
15.00	144.5	27.744	0.2092	20.92	0.7908	1272.2481	218.0707	180.00	35.00	0.1605	187.6902	5.2348

DATA TRIAKSIAL KOMPRESI

Sampel 1 (  $\sigma_3' = 50 \text{ Kpa}$  )

Jenis Tanah : Soft Clay 32% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}_{\Delta u/\Delta \sigma}$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	144.00	0.00		50.0000	3.9120
0.25	15.5	2.976	0.0035	0.35	0.9965	1009.6076	29.4768	148.00	4.00	0.1357	55.8256	4.0222
0.50	20.0	3.840	0.0070	0.70	0.9930	1013.1526	37.9015	154.00	10.00	0.2638	52.6338	3.9634
0.75	20.5	3.936	0.0105	1.05	0.9895	1016.7226	38.7126	156.00	12.00	0.3100	50.9042	3.9299
1.00	25.0	4.800	0.0139	1.39	0.9861	1020.3178	47.0442	156.00	12.00	0.2551	53.6814	3.9831
1.25	28.0	5.376	0.0174	1.74	0.9826	1023.9385	52.5032	158.00	14.00	0.2667	53.5011	3.9797
1.50	32.0	6.144	0.0209	2.09	0.9791	1027.5850	59.7907	158.00	14.00	0.2342	55.9302	4.0241
1.75	33.0	6.336	0.0244	2.44	0.9756	1031.2576	61.4395	158.00	14.00	0.2279	56.4798	4.0339
2.00	34.0	6.528	0.0279	2.79	0.9721	1034.9565	63.0751	160.00	16.00	0.2537	55.0250	4.0078
2.25	35.0	6.720	0.0314	3.14	0.9686	1038.6820	64.6974	160.00	16.00	0.2473	55.5658	4.0176
2.50	36.0	6.912	0.0349	3.49	0.9651	1042.4345	66.3063	160.00	16.00	0.2413	56.1021	4.0272
2.75	37.0	7.104	0.0384	3.84	0.9616	1046.2142	67.9020	161.00	17.00	0.2504	55.6340	4.0188
3.00	38.0	7.296	0.0418	4.18	0.9582	1050.0213	69.4843	161.00	17.00	0.2447	56.1614	4.0282
3.25	39.0	7.488	0.0453	4.53	0.9547	1053.8563	71.0533	161.00	17.00	0.2393	56.6844	4.0375
3.50	40.0	7.680	0.0488	4.88	0.9512	1057.7195	72.6090	161.00	17.00	0.2341	57.2030	4.0466
3.75	41.0	7.872	0.0523	5.23	0.9477	1061.6110	74.1515	160.00	16.00	0.2158	58.7172	4.0727
4.00	42.0	8.064	0.0558	5.58	0.9442	1065.5313	75.6806	160.00	16.00	0.2114	59.2269	4.0814
4.25	43.0	8.256	0.0593	5.93	0.9407	1069.4806	77.1964	160.00	16.00	0.2073	59.7321	4.0899
4.50	44.0	8.448	0.0628	6.28	0.9372	1073.4593	78.6988	159.00	15.00	0.1906	61.2329	4.1147
4.75	45.0	8.640	0.0662	6.62	0.9338	1077.4678	80.1880	159.00	15.00	0.1871	61.7293	4.1228
5.00	46.0	8.832	0.0697	6.97	0.9303	1081.5062	81.6639	159.00	15.00	0.1837	62.2213	4.1307
5.25	47.0	9.024	0.0732	7.32	0.9268	1085.5751	83.1264	158.00	14.00	0.1684	63.7088	4.1543
5.50	48.0	9.216	0.0767	7.67	0.9233	1089.6747	84.5757	158.00	14.00	0.1655	64.1919	4.1619
5.75	48.5	9.312	0.0802	8.02	0.9198	1093.8054	85.1340	158.00	14.00	0.1644	64.3780	4.1648
6.00	48.5	9.312	0.0837	8.37	0.9163	1097.9675	84.8113	157.00	13.00	0.1533	65.2704	4.1785
6.25	49.0	9.408	0.0872	8.72	0.9128	1102.1614	85.3595	157.00	13.00	0.1523	65.4532	4.1813
6.50	49.0	9.408	0.0907	9.07	0.9093	1106.3875	85.0335	156.00	12.00	0.1411	66.3445	4.1949
6.75	49.5	9.504	0.0941	9.41	0.9059	1110.6461	85.5718	156.00	12.00	0.1402	66.5239	4.1976
7.00	49.5	9.504	0.0976	9.76	0.9024	1114.9377	85.2424	155.00	11.00	0.1290	67.4141	4.2109
7.25	50.0	9.600	0.1011	10.11	0.8989	1119.2625	85.7708	155.00	11.00	0.1282	67.5903	4.2135
7.50	50.0	9.600	0.1046	10.46	0.8954	1123.6210	85.4381	154.00	10.00	0.1170	68.4794	4.2265
7.75	50.0	9.600	0.1081	10.81	0.8919	1128.0136	85.1054	154.00	10.00	0.1175	68.3685	4.2249
8.00	50.0	9.600	0.1116	11.16	0.8884	1132.4406	84.7727	153.00	9.00	0.1062	69.2576	4.2378
8.25	49.0	9.408	0.1151	11.51	0.8849	1136.9025	82.7512	153.00	9.00	0.1088	68.5837	4.2281
8.50	49.0	9.408	0.1185	11.85	0.8815	1141.3998	82.4251	152.00	8.00	0.0971	69.4750	4.2410
8.75	49.0	9.408	0.1220	12.20	0.8780	1145.9327	82.0991	152.00	8.00	0.0974	69.3664	4.2394
9.00	48.0	9.216	0.1255	12.55	0.8745	1150.5019	80.1042	151.00	7.00	0.0874	69.7014	4.2442
9.25	48.0	9.216	0.1290	12.90	0.8710	1155.1076	79.7848	151.00	7.00	0.0877	69.5949	4.2427
9.50	48.0	9.216	0.1325	13.25	0.8675	1159.7503	79.4654	150.00	6.00	0.0755	70.4885	4.2554
9.75	47.0	9.024	0.1360	13.60	0.8640	1164.4305	77.4971	150.00	6.00	0.0774	69.8324	4.2461
10.00	47.0	9.024	0.1395	13.95	0.8605	1169.1486	77.1844	149.00	5.00	0.0648	70.7281	4.2588
10.25	47.0	9.024	0.1430	14.30	0.8570	1173.9051	76.8716	149.00	5.00	0.0650	70.6239	4.2574
10.50	46.0	8.832	0.1464	14.64	0.8536	1178.7004	74.9300	148.00	4.00	0.0534	70.9767	4.2624
10.75	46.0	8.832	0.1499	14.99	0.8501	1183.5351	74.6239	148.00	4.00	0.0536	70.8746	4.2609
11.00	46.0	8.832	0.1534	15.34	0.8466	1188.4097	74.3178	147.00	3.00	0.0404	71.7726	4.2735
11.25	46.0	8.832	0.1569	15.69	0.8431	1193.3245	74.0117	147.00	3.00	0.0405	71.6706	4.2721
11.50	46.0	8.832	0.1604	16.04	0.8396	1198.2802	73.7056	146.00	2.00	0.0271	72.5685	4.2845
11.75	46.0	8.832	0.1639	16.39	0.8361	1203.2772	73.3995	146.00	2.00	0.0272	72.4665	4.2831
12.00	45.0	8.640	0.1674	16.74	0.8326	1208.3160	71.5045	145.00	1.00	0.0140	72.8348	4.2882
12.25	45.0	8.640	0.1709	17.09	0.8291	1213.3973	71.2050	145.00	1.00	0.0140	72.7350	4.2868
12.50	45.0	8.640	0.1743	17.43	0.8257	1218.5214	70.9056	145.00	1.00	0.0141	72.6352	4.2854
12.75	45.0	8.640	0.1778	17.78	0.8222	1223.6890	70.6062	145.00	1.00	0.0142	72.5354	4.2841
13.00	45.0	8.640	0.1813	18.13	0.8187	1228.9006	70.3067	145.00	1.00	0.0142	72.4356	4.2827
13.25	45.0	8.640	0.1848	18.48	0.8152	1234.1568	70.0073	145.00	1.00	0.0143	72.3358	4.2813
13.50	44.0	8.448	0.1883	18.83	0.8117	1239.4582	68.1588	145.00	1.00	0.0147	71.7196	4.2728
13.75	44.0	8.448	0.1918	19.18	0.8082	1244.8053	67.8660	145.00	1.00	0.0147	71.6220	4.2714
14.00	44.0	8.448	0.1953	19.53	0.8047	1250.1987	67.5733	145.00	1.00	0.0148	71.5244	4.2700
14.25	44.0	8.448	0.1987	19.87	0.8013	1255.6391	67.2805	145.00	1.00	0.0149	71.4268	4.2687
14.50	44.0	8.448	0.2022	20.22	0.7978	1261.1270	66.9877	145.00	1.00	0.0149	71.3292	4.2673
14.75	44.0	8.448	0.2057	20.57	0.7943	1266.6632	66.6949	145.00	1.00	0.0150	71.2316	4.2659
15.00	43.0	8.256	0.2092	20.92	0.7908	1272.2481	64.8930	145.00	1.00	0.0154	70.6310	4.2575

**Sampel 2 (  $\sigma_3' = 100 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 32% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A} \Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	143.000	0.00		100.0000	4.6052
0.25	25.0	4.800	0.0035	0.35	0.9965	1009.6076	47.5432	153.000	10.00	0.2103	105.8477	4.6620
0.50	25.0	4.800	0.0070	0.70	0.9930	1013.1526	47.3769	158.000	15.00	0.3166	100.7923	4.6131
0.75	30.0	5.760	0.0105	1.05	0.9895	1016.7226	56.6526	163.000	20.00	0.3530	98.8842	4.5939
1.00	30.0	5.760	0.0139	1.39	0.9861	1020.3178	56.4530	168.000	25.00	0.4428	93.8177	4.5414
1.25	35.0	6.720	0.0174	1.74	0.9826	1023.9385	65.6289	168.000	25.00	0.3809	96.8763	4.5734
1.50	35.0	6.720	0.0209	2.09	0.9791	1027.5850	65.3961	168.000	25.00	0.3823	96.7987	4.5726
1.75	40.0	7.680	0.0244	2.44	0.9756	1031.2576	74.4722	165.000	22.00	0.2954	102.8241	4.6330
2.00	40.0	7.680	0.0279	2.79	0.9721	1034.9565	74.2060	165.000	22.00	0.2965	102.7353	4.6322
2.25	45.0	8.640	0.0314	3.14	0.9686	1038.6820	83.1823	165.000	22.00	0.2645	105.7274	4.6609
2.50	45.0	8.640	0.0349	3.49	0.9651	1042.4345	82.8829	165.000	22.00	0.2654	105.6276	4.6599
2.75	50.0	9.600	0.0384	3.84	0.9616	1046.2142	91.7594	163.000	20.00	0.2180	110.5865	4.7058
3.00	50.0	9.600	0.0418	4.18	0.9582	1050.0213	91.4267	163.000	20.00	0.2188	110.4756	4.7048
3.25	55.0	10.560	0.0453	4.53	0.9547	1053.8563	100.2034	163.000	20.00	0.1996	113.4011	4.7309
3.50	55.0	10.560	0.0488	4.88	0.9512	1057.7195	99.8374	163.000	20.00	0.2003	113.2791	4.7299
3.75	55.0	10.560	0.0523	5.23	0.9477	1061.6110	99.4715	163.000	20.00	0.2011	113.1572	4.7288
4.00	60.0	11.520	0.0558	5.58	0.9442	1065.5313	108.1151	162.000	19.00	0.1757	117.0384	4.7625
4.25	60.0	11.520	0.0593	5.93	0.9407	1069.4806	107.7158	162.000	19.00	0.1764	116.9053	4.7614
4.50	60.0	11.520	0.0628	6.28	0.9372	1073.4593	107.3166	162.000	19.00	0.1770	116.7722	4.7602
4.75	65.0	12.480	0.0662	6.62	0.9338	1077.4678	115.8271	162.000	19.00	0.1640	119.6090	4.7842
5.00	65.0	12.480	0.0697	6.97	0.9303	1081.5062	115.3946	162.000	19.00	0.1647	119.4649	4.7830
5.25	65.0	12.480	0.0732	7.32	0.9268	1085.5751	114.9621	162.000	19.00	0.1653	119.3207	4.7818
5.50	70.0	13.440	0.0767	7.67	0.9233	1089.6747	123.3396	162.000	19.00	0.1540	122.1132	4.8049
5.75	70.0	13.440	0.0802	8.02	0.9198	1093.8054	122.8738	162.000	19.00	0.1546	121.9579	4.8037
6.00	70.0	13.440	0.0837	8.37	0.9163	1097.9675	122.4080	162.000	19.00	0.1552	121.8027	4.8024
6.25	72.0	13.824	0.0872	8.72	0.9128	1102.1614	125.4263	162.000	19.00	0.1515	122.8088	4.8106
6.50	72.0	13.824	0.0907	9.07	0.9093	1106.3875	124.9472	162.000	19.00	0.1521	122.6491	4.8093
6.75	75.0	14.400	0.0941	9.41	0.9059	1110.6461	129.6543	161.000	18.00	0.1388	125.2181	4.8301
7.00	75.0	14.400	0.0976	9.76	0.9024	1114.9377	129.1552	161.000	18.00	0.1394	125.0517	4.8287
7.25	75.0	14.400	0.1011	10.11	0.8989	1119.2625	128.6561	161.000	18.00	0.1399	124.8854	4.8274
7.50	75.0	14.400	0.1046	10.46	0.8954	1123.6210	128.1571	161.000	18.00	0.1405	124.7190	4.8261
7.75	78.0	14.976	0.1081	10.81	0.8919	1128.0136	132.7644	161.000	18.00	0.1356	126.2548	4.8383
8.00	78.0	14.976	0.1116	11.16	0.8884	1132.4406	132.2453	161.000	18.00	0.1361	126.0818	4.8369
8.25	78.0	14.976	0.1151	11.51	0.8849	1136.9025	131.7263	161.000	18.00	0.1366	125.9088	4.8356
8.50	78.0	14.976	0.1185	11.85	0.8815	1141.3998	131.2073	161.000	18.00	0.1372	125.7358	4.8342
8.75	80.0	15.360	0.1220	12.20	0.8780	1145.9327	134.0393	161.000	18.00	0.1343	126.6798	4.8417
9.00	80.0	15.360	0.1255	12.55	0.8745	1150.5019	133.5070	160.000	17.00	0.1273	127.5023	4.8481
9.25	78.0	14.976	0.1290	12.90	0.8710	1155.1076	129.6503	160.000	17.00	0.1311	126.2168	4.8380
9.50	78.0	14.976	0.1325	13.25	0.8675	1159.7503	129.1312	160.000	17.00	0.1316	126.0437	4.8366
9.75	76.0	14.592	0.1360	13.60	0.8640	1164.4305	125.3145	160.000	17.00	0.1357	124.7715	4.8265
10.00	76.0	14.592	0.1395	13.95	0.8605	1169.1486	124.8088	161.000	18.00	0.1442	123.6029	4.8171
10.25	74.0	14.208	0.1430	14.30	0.8570	1173.9051	121.0319	161.000	18.00	0.1487	122.3440	4.8068
10.50	74.0	14.208	0.1464	14.64	0.8536	1178.7004	120.5395	161.000	18.00	0.1493	122.1798	4.8055
10.75	72.0	13.824	0.1499	14.99	0.8501	1183.5351	116.8026	161.000	18.00	0.1541	120.9342	4.7952
11.00	72.0	13.824	0.1534	15.34	0.8466	1188.4097	116.3235	162.000	19.00	0.1633	119.7745	4.7856
11.25	70.0	13.440	0.1569	15.69	0.8431	1193.3245	112.6265	162.000	19.00	0.1687	118.5422	4.7753
11.50	70.0	13.440	0.1604	16.04	0.8396	1198.2802	112.1607	161.000	18.00	0.1605	119.3869	4.7824
11.75	68.0	13.056	0.1639	16.39	0.8361	1203.2772	108.5037	161.000	18.00	0.1659	118.1679	4.7721
12.00	68.0	13.056	0.1674	16.74	0.8326	1208.3160	108.0512	160.000	17.00	0.1573	119.0171	4.7793
12.25	66.0	12.672	0.1709	17.09	0.8291	1213.3973	104.4341	160.000	17.00	0.1628	117.8114	4.7691
12.50	66.0	12.672	0.1743	17.43	0.8257	1218.5214	103.9949	159.000	16.00	0.1539	118.6650	4.7763
12.75	64.0	12.288	0.1778	17.78	0.8222	1223.6890	100.4177	158.000	15.00	0.1494	118.4726	4.7747
13.00	64.0	12.288	0.1813	18.13	0.8187	1228.9006	99.9918	158.000	15.00	0.1500	118.3306	4.7735
13.25	62.0	11.904	0.1848	18.48	0.8152	1234.1568	96.4545	158.000	15.00	0.1555	117.1515	4.7635
13.50	62.0	11.904	0.1883	18.83	0.8117	1239.4582	96.0420	158.000	15.00	0.1562	117.0140	4.7623
13.75	60.0	11.520	0.1918	19.18	0.8082	1244.8053	92.5446	158.000	15.00	0.1621	115.8482	4.7523
14.00	60.0	11.520	0.1953	19.53	0.8047	1250.1987	92.1454	158.000	15.00	0.1628	115.7151	4.7511
14.25	58.0	11.136	0.1987	19.87	0.8013	1255.6391	88.6879	158.000	15.00	0.1691	114.5626	4.7411
14.50	58.0	11.136	0.2022	20.22	0.7978	1261.1270	88.3020	158.000	15.00	0.1699	114.4340	4.7400
14.75	56.0	10.752	0.2057	20.57	0.7943	1266.6632	84.8844	158.000	15.00	0.1767	113.2948	4.7300
15.00	56.0	10.752	0.2092	20.92	0.7908	1272.2481	84.5118	158.000	15.00	0.1775	113.1706	4.7289

**Sampel 3 (  $\sigma_3' = 150 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 32% With No Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	140.00	0.00		150.0000	5.0106
0.25	34.5	6.624	0.0035	0.35	0.9965	1009.6076	65.6096	162.00	22.00	0.3353	149.8699	5.0098
0.50	42.5	8.160	0.0070	0.70	0.9930	1013.1526	80.5407	165.00	25.00	0.3104	151.8469	5.0229
0.75	48.5	9.312	0.0105	1.05	0.9895	1016.7226	91.5884	168.00	28.00	0.3057	152.5295	5.0274
1.00	53.0	10.176	0.0139	1.39	0.9861	1020.3178	99.7336	171.00	31.00	0.3108	152.2445	5.0255
1.25	57.0	10.944	0.0174	1.74	0.9826	1023.9385	106.8814	172.00	32.00	0.2994	153.6271	5.0345
1.50	61.0	11.712	0.0209	2.09	0.9791	1027.5850	113.9760	175.00	35.00	0.3071	152.9920	5.0304
1.75	63.0	12.096	0.0244	2.44	0.9756	1031.2576	117.2937	178.00	38.00	0.3240	151.0979	5.0179
2.00	66.0	12.672	0.0279	2.79	0.9721	1034.9565	122.4399	180.00	40.00	0.3267	150.8133	5.0160
2.25	69.0	13.248	0.0314	3.14	0.9686	1038.6820	127.5463	182.00	42.00	0.3293	150.5154	5.0141
2.50	70.2	13.478	0.0349	3.49	0.9651	1042.4345	129.2973	184.00	44.00	0.3403	149.0991	5.0046
2.75	71.0	13.632	0.0384	3.84	0.9616	1046.2142	130.2984	184.00	44.00	0.3377	149.4328	5.0068
3.00	72.2	13.862	0.0418	4.18	0.9582	1050.0213	132.0202	185.00	45.00	0.3409	149.0067	5.0040
3.25	73.2	14.054	0.0453	4.53	0.9547	1053.8563	133.3616	185.00	45.00	0.3374	149.4539	5.0070
3.50	75.2	14.438	0.0488	4.88	0.9512	1057.7195	136.5050	188.00	48.00	0.3516	147.5017	4.9938
3.75	77.0	14.784	0.0523	5.23	0.9477	1061.6110	139.2601	189.00	49.00	0.3519	147.4200	4.9933
4.00	79.0	15.168	0.0558	5.58	0.9442	1065.5313	142.3515	189.00	49.00	0.3442	148.4505	5.0003
4.25	80.5	15.456	0.0593	5.93	0.9407	1069.4806	144.5188	189.00	49.00	0.3391	149.1729	5.0051
4.50	81.8	15.706	0.0628	6.28	0.9372	1073.4593	146.3083	189.00	49.00	0.3349	149.7694	5.0091
4.75	82.0	15.744	0.0662	6.62	0.9338	1077.4678	146.1204	189.00	49.00	0.3353	149.7068	5.0087
5.00	82.5	15.840	0.0697	6.97	0.9303	1081.5062	146.4624	190.00	50.00	0.3414	148.8208	5.0027
5.25	84.0	16.128	0.0732	7.32	0.9268	1085.5751	148.5664	190.00	50.00	0.3365	149.5221	5.0074
5.50	85.5	16.416	0.0767	7.67	0.9233	1089.6747	150.6505	190.00	50.00	0.3319	150.2168	5.0121
5.75	86.8	16.666	0.0802	8.02	0.9198	1093.8054	152.3635	190.00	50.00	0.3282	150.7878	5.0159
6.00	88.5	16.992	0.0837	8.37	0.9163	1097.9675	154.7587	190.00	50.00	0.3231	151.5862	5.0212
6.25	90.0	17.280	0.0872	8.72	0.9128	1102.1614	156.7828	190.00	50.00	0.3189	152.2609	5.0256
6.50	91.5	17.568	0.0907	9.07	0.9093	1106.3875	158.7870	189.00	49.00	0.3086	153.9290	5.0365
6.75	92.5	17.760	0.0941	9.41	0.9059	1110.6461	159.9069	189.00	49.00	0.3064	154.3023	5.0389
7.00	92.5	17.760	0.0976	9.76	0.9024	1114.9377	159.2914	189.00	49.00	0.3076	154.0971	5.0376
7.25	92.5	17.760	0.1011	10.11	0.8989	1119.2625	158.6759	189.00	49.00	0.3088	153.8920	5.0363
7.50	92.5	17.760	0.1046	10.46	0.8954	1123.6210	158.0604	189.00	49.00	0.3100	153.6868	5.0349
7.75	93.0	17.856	0.1081	10.81	0.8919	1128.0136	158.2960	189.00	49.00	0.3095	153.7653	5.0354
8.00	94.5	18.144	0.1116	11.16	0.8884	1132.4406	160.2203	188.00	48.00	0.2996	155.4068	5.0460
8.25	96.2	18.470	0.1151	11.51	0.8849	1136.9025	162.4625	188.00	48.00	0.2955	156.1542	5.0508
8.50	97.0	18.624	0.1185	11.85	0.8815	1141.3998	163.1681	188.00	48.00	0.2942	156.3894	5.0523
8.75	97.8	18.778	0.1220	12.20	0.8780	1145.9327	163.8630	187.00	47.00	0.2868	157.6210	5.0602
9.00	98.0	18.816	0.1255	12.55	0.8745	1150.5019	163.5460	187.00	47.00	0.2874	157.5153	5.0595
9.25	98.5	18.912	0.1290	12.90	0.8710	1155.1076	163.7250	187.00	47.00	0.2871	157.5750	5.0599
9.50	98.8	18.970	0.1325	13.25	0.8675	1159.7503	163.5662	186.00	46.00	0.2812	158.5221	5.0659
9.75	98.8	18.970	0.1360	13.60	0.8640	1164.4305	162.9088	186.00	46.00	0.2824	158.3029	5.0645
10.00	99.0	19.008	0.1395	13.95	0.8605	1169.1486	162.5799	185.00	45.00	0.2768	159.1933	5.0701
10.25	100.5	19.296	0.1430	14.30	0.8570	1173.9051	164.3744	185.00	45.00	0.2738	159.7915	5.0739
10.50	101.0	19.392	0.1464	14.64	0.8536	1178.7004	164.5202	184.00	44.00	0.2674	160.8401	5.0804
10.75	101.5	19.488	0.1499	14.99	0.8501	1183.5351	164.6592	184.00	44.00	0.2672	160.8864	5.0807
11.00	102.0	19.584	0.1534	15.34	0.8466	1188.4097	164.7917	184.00	44.00	0.2670	160.9306	5.0810
11.25	102.8	19.738	0.1569	15.69	0.8431	1193.3245	165.4001	184.00	44.00	0.2660	161.1334	5.0822
11.50	102.8	19.738	0.1604	16.04	0.8396	1198.2802	164.7161	183.00	43.00	0.2611	161.9054	5.0870
11.75	102.9	19.757	0.1639	16.39	0.8361	1203.2772	164.1916	183.00	43.00	0.2619	161.7305	5.0859
12.00	102.9	19.757	0.1674	16.74	0.8326	1208.3160	163.5069	183.00	43.00	0.2630	161.5023	5.0845
12.25	102.9	19.757	0.1709	17.09	0.8291	1213.3973	162.8222	183.00	43.00	0.2641	161.2741	5.0831
12.50	103.0	19.776	0.1743	17.43	0.8257	1218.5214	162.2951	183.00	43.00	0.2649	161.0984	5.0820
12.75	103.5	19.872	0.1778	17.78	0.8222	1223.6890	162.3942	183.00	43.00	0.2648	161.1314	5.0822
13.00	104.5	20.064	0.1813	18.13	0.8187	1228.9006	163.2679	183.00	43.00	0.2634	161.4226	5.0840
13.25	106.0	20.352	0.1848	18.48	0.8152	1234.1568	164.9061	180.00	40.00	0.2426	164.9687	5.1058
13.50	106.0	20.352	0.1883	18.83	0.8117	1239.4582	164.2008	180.00	40.00	0.2436	164.7336	5.1043
13.75	106.0	20.352	0.1918	19.18	0.8082	1244.8033	163.4954	180.00	40.00	0.2447	164.4985	5.1029
14.00	106.0	20.352	0.1953	19.53	0.8047	1250.1987	162.7901	180.00	40.00	0.2457	164.2634	5.1015
14.25	106.0	20.352	0.1987	19.87	0.8013	1255.6391	162.0848	180.00	40.00	0.2468	164.0283	5.1000
14.50	106.0	20.352	0.2022	20.22	0.7978	1261.1270	161.3795	180.00	40.00	0.2479	163.7932	5.0986
14.75	106.0	20.352	0.2057	20.57	0.7943	1266.6632	160.6741	180.00	40.00	0.2490	163.5580	5.0972
15.00	106.0	20.352	0.2092	20.92	0.7908	1272.2481	159.9688	180.00	40.00	0.2500	163.3229	5.0957



DATA TRIAKSIAL KOMPRESI

**Sampel 1 ( $\sigma_3' = 50 \text{ Kpa}$ )**

Jenis Tanah : Soft Clay 32% With 1 Geo  
Proses : Kompresi

Diameter Sampel : 35.80 mm  
Tinggi Sampel ( $L_0$ ) : 71.70 mm  
Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	140.00	0.00		50.0000	3.9120
0.25	14.0	2.688	0.0035	0.35	0.9965	1009.6076	26.6242	145.00	5.00	0.1878	53.8747	3.9867
0.50	23.0	4.416	0.0070	0.70	0.9930	1013.1526	43.5867	145.00	5.00	0.1147	59.5289	4.0865
0.75	30.0	5.760	0.0105	1.05	0.9895	1016.7226	56.6526	145.00	5.00	0.0883	63.8842	4.1571
1.00	35.0	6.720	0.0139	1.39	0.9861	1020.3178	65.8618	146.00	6.00	0.0911	65.9539	4.1890
1.25	35.0	6.720	0.0174	1.74	0.9826	1023.9385	65.6289	146.00	6.00	0.0914	65.8763	4.1878
1.50	40.0	7.680	0.0209	2.09	0.9791	1027.5850	74.7383	146.00	6.00	0.0803	68.9128	4.2328
1.75	40.0	7.680	0.0244	2.44	0.9756	1031.2576	74.4722	147.00	7.00	0.0940	67.8241	4.2169
2.00	44.0	8.448	0.0279	2.79	0.9721	1034.9565	81.6266	147.00	7.00	0.0858	70.2089	4.2515
2.25	44.0	8.448	0.0314	3.14	0.9686	1038.6820	81.3338	147.00	7.00	0.0861	70.1113	4.2501
2.50	44.0	8.448	0.0349	3.49	0.9651	1042.4345	81.0411	148.00	8.00	0.0987	69.0137	4.2343
2.75	44.0	8.448	0.0384	3.84	0.9616	1046.2142	80.7483	148.00	8.00	0.0991	68.9161	4.2329
3.00	48.0	9.216	0.0418	4.18	0.9582	1050.0213	87.7696	148.00	8.00	0.0911	71.2565	4.2663
3.25	48.0	9.216	0.0453	4.53	0.9547	1053.8563	87.4502	149.00	9.00	0.1029	70.1501	4.2506
3.50	50.0	9.600	0.0488	4.88	0.9512	1057.7195	90.7613	149.00	9.00	0.0992	71.2538	4.2662
3.75	50.0	9.600	0.0523	5.23	0.9477	1061.6110	90.4286	150.00	10.00	0.1106	70.1429	4.2505
4.00	50.0	9.600	0.0558	5.58	0.9442	1065.5313	90.0959	150.00	10.00	0.1110	70.0320	4.2490
4.25	51.0	9.792	0.0593	5.93	0.9407	1069.4806	91.5585	151.00	11.00	0.1201	69.5195	4.2416
4.50	51.0	9.792	0.0628	6.28	0.9372	1073.4593	91.2191	151.00	11.00	0.1206	69.4064	4.2400
4.75	51.0	9.792	0.0662	6.62	0.9338	1077.4678	90.8797	152.00	12.00	0.1320	68.2932	4.2238
5.00	51.0	9.792	0.0697	6.97	0.9303	1081.5062	90.5404	152.00	12.00	0.1325	68.1801	4.2222
5.25	52.0	9.984	0.0732	7.32	0.9268	1085.5751	91.9697	153.00	13.00	0.1414	67.6566	4.2144
5.50	52.0	9.984	0.0767	7.67	0.9233	1089.6747	91.6237	154.00	14.00	0.1528	66.5412	4.1978
5.75	52.0	9.984	0.0802	8.02	0.9198	1093.8054	91.2777	154.00	14.00	0.1534	66.4259	4.1961
6.00	52.0	9.984	0.0837	8.37	0.9163	1097.9675	90.9317	155.00	15.00	0.1650	65.3106	4.1792
6.25	53.0	10.176	0.0872	8.72	0.9128	1102.1614	92.3277	155.00	15.00	0.1625	65.7759	4.1863
6.50	53.0	10.176	0.0907	9.07	0.9093	1106.3875	91.9750	154.00	14.00	0.1522	66.6583	4.1996
6.75	53.0	10.176	0.0941	9.41	0.9059	1110.6461	91.6223	154.00	14.00	0.1528	66.5408	4.1978
7.00	53.0	10.176	0.0976	9.76	0.9024	1114.9377	91.2697	153.00	13.00	0.1424	67.4232	4.2110
7.25	54.0	10.368	0.1011	10.11	0.8989	1119.2625	92.6324	153.00	13.00	0.1403	67.8775	4.2177
7.50	54.0	10.368	0.1046	10.46	0.8954	1123.6210	92.2731	152.00	12.00	0.1300	68.7577	4.2306
7.75	54.0	10.368	0.1081	10.81	0.8919	1128.0136	91.9138	152.00	12.00	0.1306	68.6379	4.2288
8.00	54.0	10.368	0.1116	11.16	0.8884	1132.4406	91.5545	151.00	11.00	0.1201	69.5182	4.2416
8.25	55.0	10.560	0.1151	11.51	0.8849	1136.9025	92.8840	151.00	11.00	0.1184	69.9613	4.2479
8.50	55.0	10.560	0.1185	11.85	0.8815	1141.3998	92.5180	150.00	10.00	0.1081	70.8393	4.2604
8.75	55.0	10.560	0.1220	12.20	0.8780	1145.9327	92.1520	150.00	10.00	0.1085	70.7173	4.2587
9.00	55.0	10.560	0.1255	12.55	0.8745	1150.5019	91.7860	149.00	9.00	0.0981	71.5953	4.2710
9.25	56.0	10.752	0.1290	12.90	0.8710	1155.1076	93.0822	149.00	9.00	0.0967	72.0274	4.2770
9.50	56.0	10.752	0.1325	13.25	0.8675	1159.7503	92.7096	148.00	8.00	0.0863	72.9032	4.2891
9.75	57.0	10.944	0.1360	13.60	0.8640	1164.4305	93.9859	148.00	8.00	0.0851	73.3286	4.2950
10.00	57.0	10.944	0.1395	13.95	0.8605	1169.1486	93.6066	147.00	7.00	0.0748	74.2022	4.3068
10.25	58.0	11.136	0.1430	14.30	0.8570	1173.9051	94.8629	147.00	7.00	0.0738	74.6210	4.3124
10.50	58.0	11.136	0.1464	14.64	0.8536	1178.7004	94.4769	147.00	7.00	0.0741	74.4923	4.3107
10.75	59.0	11.328	0.1499	14.99	0.8501	1183.5351	95.7133	146.00	6.00	0.0627	75.9044	4.3295
11.00	60.0	11.520	0.1534	15.34	0.8466	1188.4097	96.9363	146.00	6.00	0.0619	76.3121	4.3348
11.25	62.0	11.904	0.1569	15.69	0.8431	1193.3245	99.7549	146.00	6.00	0.0601	77.2516	4.3471
11.50	63.0	12.096	0.1604	16.04	0.8396	1198.2802	100.9447	145.00	5.00	0.0495	78.6482	4.3650
11.75	65.0	12.480	0.1639	16.39	0.8361	1203.2772	103.7168	145.00	5.00	0.0482	79.5723	4.3767
12.00	66.0	12.672	0.1674	16.74	0.8326	1208.3160	104.8732	145.00	5.00	0.0477	79.9577	4.3815
12.25	68.0	13.056	0.1709	17.09	0.8291	1213.3973	107.5987	144.00	4.00	0.0372	81.8662	4.4051
12.50	69.0	13.248	0.1743	17.43	0.8257	1218.5214	108.7219	144.00	4.00	0.0368	82.2406	4.4096
12.75	70.0	13.440	0.1778	17.78	0.8222	1223.6890	109.8318	144.00	4.00	0.0364	82.6106	4.4141
13.00	70.0	13.440	0.1813	18.13	0.8187	1228.9006	109.3660	143.00	3.00	0.0274	83.4553	4.4243
13.25	69.0	13.248	0.1848	18.48	0.8152	1234.1568	107.3445	143.00	3.00	0.0279	82.7815	4.4162
13.50	69.0	13.248	0.1883	18.83	0.8117	1239.4582	106.8854	143.00	3.00	0.0281	82.6285	4.4144
13.75	67.0	12.864	0.1918	19.18	0.8082	1244.8053	103.3415	142.00	2.00	0.0194	82.4472	4.4122
14.00	67.0	12.864	0.1953	19.53	0.8047	1250.1987	102.8956	142.00	2.00	0.0194	82.2985	4.4104
14.25	65.0	12.480	0.1987	19.87	0.8013	1255.6391	99.3916	142.00	2.00	0.0201	81.1305	4.3961
14.50	65.0	12.480	0.2022	20.22	0.7978	1261.1270	98.9591	141.00	1.00	0.0101	81.9864	4.4066
14.75	64.0	12.288	0.2057	20.57	0.7943	1266.6632	97.0108	141.00	1.00	0.0103	81.3369	4.3986
15.00	63.0	12.096	0.2092	20.92	0.7908	1272.2481	95.0758	141.00	1.00	0.0105	80.6919	4.3906

**Sampel 2 (  $\sigma_3' = 100 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 32% With 1 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	145.00	0.00		100.0000	4.6052
0.25	32.0	6.144	0.0035	0.35	0.9965	1009.6076	60.8553	150.00	5.00	0.0822	115.2851	4.7474
0.50	39.0	7.488	0.0070	0.70	0.9930	1013.1526	73.9079	152.00	7.00	0.0947	117.6360	4.7676
0.75	44.5	8.544	0.0105	1.05	0.9895	1016.7226	84.0347	155.00	10.00	0.1190	118.0116	4.7708
1.00	48.5	9.312	0.0139	1.39	0.9861	1020.3178	91.2657	157.00	12.00	0.1315	118.4219	4.7743
1.25	51.5	9.888	0.0174	1.74	0.9826	1023.9385	96.5683	159.00	14.00	0.1450	118.1894	4.7723
1.50	54.0	10.368	0.0209	2.09	0.9791	1027.5850	100.8968	160.00	15.00	0.1487	118.6323	4.7760
1.75	56.0	10.752	0.0244	2.44	0.9756	1031.2576	104.2611	161.00	16.00	0.1535	118.7537	4.7771
2.00	57.5	11.040	0.0279	2.79	0.9721	1034.9565	106.6712	161.00	16.00	0.1500	119.5571	4.7838
2.25	59.5	11.424	0.0314	3.14	0.9686	1038.6820	109.9855	162.00	17.00	0.1546	119.6618	4.7847
2.50	61.0	11.712	0.0349	3.49	0.9651	1042.4345	112.3524	164.00	19.00	0.1691	118.4508	4.7745
2.75	62.0	11.904	0.0384	3.84	0.9616	1046.2142	113.7817	165.00	20.00	0.1758	117.9272	4.7701
3.00	64.0	12.288	0.0418	4.18	0.9582	1050.0213	117.0262	165.00	20.00	0.1709	119.0087	4.7792
3.25	65.0	12.480	0.0453	4.53	0.9547	1053.8563	118.4222	167.00	22.00	0.1858	117.4741	4.7662
3.50	66.0	12.672	0.0488	4.88	0.9512	1057.7195	119.8049	167.00	22.00	0.1836	117.9350	4.7701
3.75	67.0	12.864	0.0523	5.23	0.9477	1061.6110	121.1743	167.00	22.00	0.1816	118.3914	4.7740
4.00	68.0	13.056	0.0558	5.58	0.9442	1065.5313	122.5304	167.00	22.00	0.1795	118.8435	4.7778
4.25	69.0	13.248	0.0593	5.93	0.9407	1069.4806	123.8732	169.00	24.00	0.1937	117.2911	4.7647
4.50	69.5	13.344	0.0628	6.28	0.9372	1073.4593	124.3084	169.00	24.00	0.1931	117.4361	4.7659
4.75	70.0	13.440	0.0662	6.62	0.9338	1077.4678	124.7369	169.00	24.00	0.1924	117.5790	4.7671
5.00	72.0	13.824	0.0697	6.97	0.9303	1081.5062	127.8217	169.00	24.00	0.1878	118.6072	4.7758
5.25	73.0	14.016	0.0732	7.32	0.9268	1085.5751	129.1113	169.00	24.00	0.1859	119.0371	4.7794
5.50	75.0	14.400	0.0767	7.67	0.9233	1089.6747	132.1495	169.00	24.00	0.1816	120.0498	4.7879
5.75	77.0	14.784	0.0802	8.02	0.9198	1093.8054	135.1612	169.00	24.00	0.1776	121.0537	4.7962
6.00	78.5	15.072	0.0837	8.37	0.9163	1097.9675	137.2718	169.00	24.00	0.1748	121.7573	4.8020
6.25	80.0	15.360	0.0872	8.72	0.9128	1102.1614	139.3625	169.00	24.00	0.1722	122.4542	4.8077
6.50	80.0	15.360	0.0907	9.07	0.9093	1106.3875	138.8302	167.00	22.00	0.1585	124.2767	4.8225
6.75	80.0	15.360	0.0941	9.41	0.9059	1110.6461	138.2979	165.00	20.00	0.1446	126.0993	4.8371
7.00	80.0	15.360	0.0976	9.76	0.9024	1114.9377	137.7656	163.00	18.00	0.1307	127.9219	4.8514
7.25	80.0	15.360	0.1011	10.11	0.8989	1119.2625	137.2332	161.00	16.00	0.1166	129.7444	4.8656
7.50	80.0	15.360	0.1046	10.46	0.8954	1123.6210	136.7009	158.00	13.00	0.0951	132.5670	4.8811
7.75	79.5	15.264	0.1081	10.81	0.8919	1128.0136	135.3175	155.00	10.00	0.0739	135.1058	4.9061
8.00	79.5	15.264	0.1116	11.16	0.8884	1132.4406	134.7885	152.00	7.00	0.0519	137.9295	4.9267
8.25	79.5	15.264	0.1151	11.51	0.8849	1136.9025	134.2595	152.00	7.00	0.0521	137.7532	4.9255
8.50	79.5	15.264	0.1185	11.85	0.8815	1141.3998	133.7305	152.00	7.00	0.0523	137.5768	4.9242
8.75	79.5	15.264	0.1220	12.20	0.8780	1145.9327	133.2015	151.00	6.00	0.0450	138.4005	4.9302
9.00	79.0	15.168	0.1255	12.55	0.8745	1150.5019	131.8381	151.00	6.00	0.0455	137.9460	4.9269
9.25	79.0	15.168	0.1290	12.90	0.8710	1155.1076	131.3124	151.00	6.00	0.0457	137.7708	4.9256
9.50	79.0	15.168	0.1325	13.25	0.8675	1159.7503	130.7868	151.00	6.00	0.0459	137.5956	4.9243
9.75	79.0	15.168	0.1360	13.60	0.8640	1164.4305	130.2611	151.00	6.00	0.0461	137.4204	4.9230
10.00	79.0	15.168	0.1395	13.95	0.8605	1169.1486	129.7354	151.00	6.00	0.0462	137.2451	4.9218
10.25	79.0	15.168	0.1430	14.30	0.8570	1173.9051	129.2098	151.00	6.00	0.0464	137.0699	4.9205
10.50	79.0	15.168	0.1464	14.64	0.8536	1178.7004	128.6841	151.00	6.00	0.0466	136.8947	4.9192
10.75	79.0	15.168	0.1499	14.99	0.8501	1183.5351	128.1584	151.00	6.00	0.0468	136.7195	4.9179
11.00	79.0	15.168	0.1534	15.34	0.8466	1188.4097	127.6328	151.00	6.00	0.0470	136.5443	4.9166
11.25	79.0	15.168	0.1569	15.69	0.8431	1193.3245	127.1071	151.00	6.00	0.0472	136.3690	4.9154
11.50	78.5	15.072	0.1604	16.04	0.8396	1198.2802	125.7803	151.00	6.00	0.0477	135.9268	4.9121
11.75	78.5	15.072	0.1639	16.39	0.8361	1203.2772	125.2579	151.00	6.00	0.0479	135.7526	4.9108
12.00	78.5	15.072	0.1674	16.74	0.8326	1208.3160	124.7356	151.00	6.00	0.0481	135.5785	4.9096
12.25	78.5	15.072	0.1709	17.09	0.8291	1213.3973	124.2132	151.00	6.00	0.0483	135.4044	4.9083
12.50	78.5	15.072	0.1743	17.43	0.8257	1218.5214	123.6909	151.00	6.00	0.0485	135.2303	4.9070
12.75	78.5	15.072	0.1778	17.78	0.8222	1223.6890	123.1686	150.00	5.00	0.0406	136.0562	4.9131
13.00	78.5	15.072	0.1813	18.13	0.8187	1228.9006	122.6462	150.00	5.00	0.0408	135.8821	4.9118
13.25	78.5	15.072	0.1848	18.48	0.8152	1234.1568	122.1239	150.00	5.00	0.0409	135.7080	4.9105
13.50	78.0	14.976	0.1883	18.83	0.8117	1239.4582	120.8270	150.00	5.00	0.0414	135.2757	4.9073
13.75	78.0	14.976	0.1918	19.18	0.8082	1244.8033	120.3080	150.00	5.00	0.0416	135.1027	4.9060
14.00	78.0	14.976	0.1953	19.53	0.8047	1250.1987	119.7890	150.00	5.00	0.0417	134.9297	4.9048
14.25	78.0	14.976	0.1987	19.87	0.8013	1255.6391	119.2699	150.00	5.00	0.0419	134.7566	4.9035
14.50	78.0	14.976	0.2022	20.22	0.7978	1261.1270	118.7509	150.00	5.00	0.0421	134.5836	4.9022
14.75	78.0	14.976	0.2057	20.57	0.7943	1266.6632	118.2319	150.00	5.00	0.0423	134.4106	4.9009
15.00	78.0	14.976	0.2092	20.92	0.7908	1272.2481	117.7129	150.00	5.00	0.0425	134.2376	4.8996

**Sampel 3 (  $\sigma_3' = 150 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 32% With 1 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A} \Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	130.00	0.00		150.0000	5.0106
0.25	30.0	5.760	0.0035	0.35	0.9965	1009.6076	57.0519	131.00	1.00	0.0175	168.0173	5.1241
0.50	39.0	7.488	0.0070	0.70	0.9930	1013.1526	73.9079	131.00	1.00	0.0135	173.6360	5.1570
0.75	45.0	8.640	0.0105	1.05	0.9895	1016.7226	84.9789	131.00	1.00	0.0118	177.3263	5.1780
1.00	52.0	9.984	0.0139	1.39	0.9861	1020.3178	97.8519	133.00	3.00	0.0307	179.6173	5.1908
1.25	60.0	11.520	0.0174	1.74	0.9826	1023.9385	112.5068	133.00	3.00	0.0267	184.5023	5.2177
1.50	68.0	13.056	0.0209	2.09	0.9791	1027.5850	127.0552	133.00	3.00	0.0236	189.3517	5.2436
1.75	75.0	14.400	0.0244	2.44	0.9756	1031.2576	139.6353	135.00	5.00	0.0358	191.5451	5.2551
2.00	80.0	15.360	0.0279	2.79	0.9721	1034.9565	148.4120	135.00	5.00	0.0337	194.4707	5.2703
2.25	85.0	16.320	0.0314	3.14	0.9686	1038.6820	157.1222	135.00	5.00	0.0318	197.3741	5.2851
2.50	90.0	17.280	0.0349	3.49	0.9651	1042.4345	165.7658	137.00	7.00	0.0422	198.2553	5.2896
2.75	93.0	17.856	0.0384	3.84	0.9616	1046.2142	170.6725	137.00	7.00	0.0410	199.8908	5.2978
3.00	93.0	17.856	0.0418	4.18	0.9582	1050.0213	170.0537	137.00	7.00	0.0412	199.6846	5.2967
3.25	96.0	18.432	0.0453	4.53	0.9547	1053.8563	174.9005	138.00	8.00	0.0457	200.3002	5.2998
3.50	96.0	18.432	0.0488	4.88	0.9512	1057.7195	174.2617	138.00	8.00	0.0459	200.0872	5.2988
3.75	96.0	18.432	0.0523	5.23	0.9477	1061.6110	173.6229	139.00	9.00	0.0518	198.8743	5.2927
4.00	99.0	19.008	0.0558	5.58	0.9442	1065.5313	178.3899	139.00	9.00	0.0505	200.4633	5.3006
4.25	99.0	19.008	0.0593	5.93	0.9407	1069.4806	177.7311	139.00	9.00	0.0506	200.2437	5.2995
4.50	99.0	19.008	0.0628	6.28	0.9372	1073.4593	177.0724	139.00	9.00	0.0508	200.0241	5.2984
4.75	100.0	19.200	0.0662	6.62	0.9338	1077.4678	178.1956	139.00	9.00	0.0505	200.3985	5.3003
5.00	100.0	19.200	0.0697	6.97	0.9303	1081.5062	177.5302	139.00	9.00	0.0507	200.1767	5.2992
5.25	101.0	19.392	0.0732	7.32	0.9268	1085.5751	178.6334	140.00	10.00	0.0560	199.5445	5.2960
5.50	102.0	19.584	0.0767	7.67	0.9233	1089.6747	179.7234	140.00	10.00	0.0556	199.9078	5.2979
5.75	103.0	19.776	0.0802	8.02	0.9198	1093.8054	180.8000	140.00	10.00	0.0553	200.2667	5.2996
6.00	104.0	19.968	0.0837	8.37	0.9163	1097.9675	181.8633	140.00	10.00	0.0550	200.6211	5.3014
6.25	104.0	19.968	0.0872	8.72	0.9128	1102.1614	181.1713	140.00	10.00	0.0552	200.3904	5.3003
6.50	105.0	20.160	0.0907	9.07	0.9093	1106.3875	182.2146	140.00	10.00	0.0549	200.7382	5.3020
6.75	105.0	20.160	0.0941	9.41	0.9059	1110.6461	181.5160	140.00	10.00	0.0551	200.5053	5.3008
7.00	106.0	20.352	0.0976	9.76	0.9024	1114.9377	182.5394	141.00	11.00	0.0603	199.8465	5.2975
7.25	106.0	20.352	0.1011	10.11	0.8989	1119.2625	181.8340	141.00	11.00	0.0605	199.6113	5.2964
7.50	107.0	20.544	0.1046	10.46	0.8954	1123.6210	182.8375	141.00	11.00	0.0602	199.9458	5.2980
7.75	107.0	20.544	0.1081	10.81	0.8919	1128.0136	182.1255	141.00	11.00	0.0604	199.7085	5.2969
8.00	108.0	20.736	0.1116	11.16	0.8884	1132.4406	183.1089	141.00	11.00	0.0601	200.0363	5.2985
8.25	108.0	20.736	0.1151	11.51	0.8849	1136.9025	182.3903	142.00	12.00	0.0658	198.7968	5.2923
8.50	109.0	20.928	0.1185	11.85	0.8815	1141.3998	183.3538	142.00	12.00	0.0654	199.1179	5.2939
8.75	109.0	20.928	0.1220	12.20	0.8780	1145.9327	182.6285	142.00	12.00	0.0657	198.8762	5.2927
9.00	110.0	21.120	0.1255	12.55	0.8745	1150.5019	183.5721	142.00	12.00	0.0654	199.1907	5.2943
9.25	111.0	21.312	0.1290	12.90	0.8710	1155.1076	184.5023	142.00	12.00	0.0650	199.5008	5.2958
9.50	112.0	21.504	0.1325	13.25	0.8675	1159.7503	185.4192	142.00	12.00	0.0647	199.8064	5.2973
9.75	113.0	21.696	0.1360	13.60	0.8640	1164.4305	186.3228	142.00	12.00	0.0644	200.1076	5.2989
10.00	114.0	21.888	0.1395	13.95	0.8605	1169.1486	187.2132	142.00	12.00	0.0641	200.4044	5.3003
10.25	115.0	22.080	0.1430	14.30	0.8570	1173.9051	188.0902	142.00	12.00	0.0638	200.6967	5.3018
10.50	116.0	22.272	0.1464	14.64	0.8536	1178.7004	188.9539	142.00	12.00	0.0635	200.9846	5.3032
10.75	117.0	22.464	0.1499	14.99	0.8501	1183.5351	189.8043	142.00	12.00	0.0632	201.2681	5.3046
11.00	118.0	22.656	0.1534	15.34	0.8466	1188.4097	190.6413	142.00	12.00	0.0629	201.5471	5.3060
11.25	118.0	22.656	0.1569	15.69	0.8431	1193.3245	189.8562	143.00	13.00	0.0685	200.2854	5.2997
11.50	118.0	22.656	0.1604	16.04	0.8396	1198.2802	189.0710	143.00	13.00	0.0688	200.0237	5.2984
11.75	118.0	22.656	0.1639	16.39	0.8361	1203.2772	188.2858	143.00	13.00	0.0690	199.7619	5.2971
12.00	119.0	22.848	0.1674	16.74	0.8326	1208.3160	189.0896	143.00	13.00	0.0688	200.0299	5.2985
12.25	119.0	22.848	0.1709	17.09	0.8291	1213.3973	188.2978	143.00	13.00	0.0690	199.7659	5.2971
12.50	119.0	22.848	0.1743	17.43	0.8257	1218.5214	187.5059	143.00	13.00	0.0693	199.5020	5.2958
12.75	119.0	22.848	0.1778	17.78	0.8222	1223.6890	186.7141	144.00	14.00	0.0750	198.2380	5.2895
13.00	120.0	23.040	0.1813	18.13	0.8187	1228.9006	187.4846	144.00	14.00	0.0747	198.4949	5.2908
13.25	120.0	23.040	0.1848	18.48	0.8152	1234.1568	186.6862	144.00	14.00	0.0750	198.2287	5.2894
13.50	120.0	23.040	0.1883	18.83	0.8117	1239.4582	185.8877	144.00	14.00	0.0753	197.9626	5.2881
13.75	119.0	22.848	0.1918	19.18	0.8082	1244.8053	185.1468	144.00	14.00	0.0763	197.1823	5.2841
14.00	117.0	22.464	0.1953	19.53	0.8047	1250.1987	179.6834	144.00	14.00	0.0779	195.8945	5.2776
14.25	115.0	22.080	0.1987	19.87	0.8013	1255.6391	175.8467	144.00	14.00	0.0796	194.6156	5.2710
14.50	112.0	21.504	0.2022	20.22	0.7978	1261.1270	170.5141	144.00	14.00	0.0821	192.8380	5.2619
14.75	110.0	21.120	0.2057	20.57	0.7943	1266.6632	166.7373	144.00	14.00	0.0840	191.5791	5.2553
15.00	110.0	21.120	0.2092	20.92	0.7908	1272.2481	166.0054	144.00	14.00	0.0843	191.3351	5.2540

DATA TRIAKSIAL KOMPRESI

**Sampel 1 (  $\sigma_3' = 50 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 32% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	140.00	0.00		50.0000	3.9120
0.25	13.0	2.496	0.0035	0.35	0.9965	1009.6076	24.7225	150.00	10.00	0.4045	48.2408	3.8762
0.50	22.0	4.224	0.0070	0.70	0.9930	1013.1526	41.6916	155.00	15.00	0.3598	48.8972	3.8897
0.75	28.0	5.376	0.0105	1.05	0.9895	1016.7226	52.8758	159.00	19.00	0.3593	48.6253	3.8841
1.00	35.0	6.720	0.0139	1.39	0.9861	1020.3178	65.8618	159.00	19.00	0.2885	52.9539	3.9694
1.25	48.0	9.216	0.0174	1.74	0.9826	1023.9385	90.0054	159.00	19.00	0.2111	61.0018	4.1109
1.50	58.0	11.136	0.0209	2.09	0.9791	1027.5850	108.3706	159.00	19.00	0.1753	67.1235	4.2065
1.75	65.0	12.480	0.0244	2.44	0.9756	1031.2576	121.0173	159.00	19.00	0.1570	71.3391	4.2674
2.00	69.0	13.248	0.0279	2.79	0.9721	1034.9565	128.0054	159.00	19.00	0.1484	73.6685	4.2996
2.25	73.0	14.016	0.0314	3.14	0.9686	1038.6820	134.9402	159.00	19.00	0.1408	75.9801	4.3305
2.50	76.0	14.592	0.0349	3.49	0.9651	1042.4345	139.9800	158.00	18.00	0.1286	78.6600	4.3651
2.75	79.0	15.168	0.0384	3.84	0.9616	1046.2142	144.9799	158.00	18.00	0.1242	80.3266	4.3861
3.00	81.0	15.552	0.0418	4.18	0.9582	1050.0213	148.1113	157.00	17.00	0.1148	82.3704	4.4112
3.25	83.0	15.936	0.0453	4.53	0.9547	1053.8563	151.2161	157.00	17.00	0.1124	83.4054	4.4237
3.50	85.0	16.320	0.0488	4.88	0.9512	1057.7195	154.2942	155.00	15.00	0.0972	86.4314	4.4594
3.75	87.5	16.800	0.0523	5.23	0.9477	1061.6110	158.2501	155.00	15.00	0.0948	87.7500	4.4745
4.00	88.5	16.992	0.0558	5.58	0.9442	1065.5313	159.4697	153.00	13.00	0.0815	90.1566	4.5015
4.25	89.5	17.184	0.0593	5.93	0.9407	1069.4806	160.6761	153.00	13.00	0.0809	90.5587	4.5060
4.50	90.5	17.376	0.0628	6.28	0.9372	1073.4593	161.8692	153.00	13.00	0.0803	90.9564	4.5104
4.75	91.5	17.568	0.0662	6.62	0.9338	1077.4678	163.0490	152.00	12.00	0.0736	92.3497	4.5256
5.00	92.0	17.664	0.0697	6.97	0.9303	1081.5062	163.3278	152.00	12.00	0.0735	92.4426	4.5266
5.25	92.0	17.664	0.0732	7.32	0.9268	1085.5751	162.7156	151.00	11.00	0.0676	93.2385	4.5352
5.50	92.0	17.664	0.0767	7.67	0.9233	1089.6747	162.1034	151.00	11.00	0.0679	93.0345	4.5330
5.75	92.0	17.664	0.0802	8.02	0.9198	1093.8054	161.4912	150.00	10.00	0.0619	93.8304	4.5415
6.00	92.5	17.760	0.0837	8.37	0.9163	1097.9675	161.7534	150.00	10.00	0.0618	93.9178	4.5424
6.25	92.5	17.760	0.0872	8.72	0.9128	1102.1614	161.1379	150.00	10.00	0.0621	93.7126	4.5402
6.50	92.5	17.760	0.0907	9.07	0.9093	1106.3875	160.5224	150.00	10.00	0.0623	93.5075	4.5380
6.75	92.5	17.760	0.0941	9.41	0.9059	1110.6461	159.9069	149.00	9.00	0.0563	94.3023	4.5465
7.00	92.5	17.760	0.0976	9.76	0.9024	1114.9377	159.2914	149.00	9.00	0.0565	94.0971	4.5443
7.25	92.5	17.760	0.1011	10.11	0.8989	1119.2625	158.6759	149.00	9.00	0.0567	93.8920	4.5421
7.50	93.0	17.856	0.1046	10.46	0.8954	1123.6210	158.9148	149.00	9.00	0.0566	93.9716	4.5430
7.75	93.0	17.856	0.1081	10.81	0.8919	1128.0136	158.2960	148.00	8.00	0.0505	94.7653	4.5514
8.00	93.0	17.856	0.1116	11.16	0.8884	1132.4406	157.6771	147.00	7.00	0.0444	95.5590	4.5597
8.25	93.0	17.856	0.1151	11.51	0.8849	1136.9025	157.0583	147.00	7.00	0.0446	95.3528	4.5576
8.50	93.0	17.856	0.1185	11.85	0.8815	1141.3998	156.4395	146.00	6.00	0.0384	96.1465	4.5659
8.75	93.0	17.856	0.1220	12.20	0.8780	1145.9327	155.8207	146.00	6.00	0.0385	95.9402	4.5637
9.00	94.0	18.048	0.1255	12.55	0.8745	1150.5019	156.8707	146.00	6.00	0.0382	96.2902	4.5674
9.25	94.0	18.048	0.1290	12.90	0.8710	1155.1076	156.2452	145.00	5.00	0.0320	97.0817	4.5756
9.50	94.0	18.048	0.1325	13.25	0.8675	1159.7503	155.6197	144.00	4.00	0.0257	97.8732	4.5837
9.75	95.0	18.240	0.1360	13.60	0.8640	1164.4305	156.6431	144.00	4.00	0.0255	98.2144	4.5872
10.00	95.0	18.240	0.1395	13.95	0.8605	1169.1486	156.0110	143.00	3.00	0.0192	99.0037	4.5952
10.25	95.0	18.240	0.1430	14.30	0.8570	1173.9051	155.3788	143.00	3.00	0.0193	98.7929	4.5930
10.50	96.0	18.432	0.1464	14.64	0.8536	1178.7004	156.3756	143.00	3.00	0.0192	99.1252	4.5964
10.75	96.0	18.432	0.1499	14.99	0.8501	1183.5351	155.7368	143.00	3.00	0.0193	98.9123	4.5942
11.00	96.0	18.432	0.1534	15.34	0.8466	1188.4097	155.0980	142.00	2.00	0.0129	99.6993	4.6022
11.25	97.0	18.624	0.1569	15.69	0.8431	1193.3245	156.0682	142.00	2.00	0.0128	100.0227	4.6054
11.50	97.0	18.624	0.1604	16.04	0.8396	1198.2802	155.4227	142.00	2.00	0.0129	99.8076	4.6032
11.75	97.0	18.624	0.1639	16.39	0.8361	1203.2772	154.7773	142.00	2.00	0.0129	99.5924	4.6011
12.00	98.0	18.816	0.1674	16.74	0.8326	1208.3160	155.7209	142.00	2.00	0.0128	99.9070	4.6042
12.25	98.0	18.816	0.1709	17.09	0.8291	1213.3973	155.0688	142.00	2.00	0.0129	99.6896	4.6021
12.50	98.0	18.816	0.1743	17.43	0.8257	1218.5214	154.4167	142.00	2.00	0.0130	99.4722	4.5999
12.75	98.0	18.816	0.1778	17.78	0.8222	1223.6890	153.7646	141.00	1.00	0.0065	100.2549	4.6077
13.00	99.0	19.008	0.1813	18.13	0.8187	1228.9006	154.6748	141.00	1.00	0.0065	100.5583	4.6107
13.25	99.0	19.008	0.1848	18.48	0.8152	1234.1568	154.0161	141.00	1.00	0.0065	100.3387	4.6086
13.50	99.0	19.008	0.1883	18.83	0.8117	1239.4582	153.3573	141.00	1.00	0.0065	100.1191	4.6064
13.75	99.0	19.008	0.1918	19.18	0.8082	1244.8053	152.6986	141.00	1.00	0.0065	99.8995	4.6042
14.00	99.5	19.104	0.1953	19.53	0.8047	1250.1987	152.8077	141.00	1.00	0.0065	99.9359	4.6045
14.25	99.5	19.104	0.1987	19.87	0.8013	1255.6391	152.1456	141.00	1.00	0.0066	99.7152	4.6023
14.50	99.5	19.104	0.2022	20.22	0.7978	1261.1270	151.4835	141.00	1.00	0.0066	99.4945	4.6001
14.75	99.5	19.104	0.2057	20.57	0.7943	1266.6632	150.8215	141.00	1.00	0.0066	99.2738	4.5979
15.00	100.0	19.200	0.2092	20.92	0.7908	1272.2481	150.9140	141.00	1.00	0.0066	99.3047	4.5982



**Sampel 2 (  $\sigma_3' = 100 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 32% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (  $L_0$  ) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	129.00	0.00		100.0000	4.6052
0.25	31.0	5.952	0.0035	0.35	0.9965	1009.6076	58.9536	135.00	6.00	0.1018	113.6512	4.7331
0.50	53.0	10.176	0.0070	0.70	0.9930	1013.1526	100.4390	139.00	10.00	0.0996	123.4797	4.8161
0.75	62.0	11.904	0.0105	1.05	0.9895	1016.7226	117.0821	145.00	16.00	0.1367	123.0274	4.8124
1.00	68.0	13.056	0.0139	1.39	0.9861	1020.3178	127.9601	149.00	20.00	0.1563	122.6534	4.8094
1.25	79.0	15.168	0.0174	1.74	0.9826	1023.9385	148.1339	155.00	26.00	0.1755	123.3780	4.8153
1.50	84.0	16.128	0.0209	2.09	0.9791	1027.5850	156.9505	157.00	28.00	0.1784	124.3168	4.8228
1.75	90.0	17.280	0.0244	2.44	0.9756	1031.2576	167.5624	158.00	29.00	0.1731	126.8541	4.8430
2.00	92.0	17.664	0.0279	2.79	0.9721	1034.9565	170.6738	159.00	30.00	0.1758	126.8913	4.8433
2.25	98.0	18.816	0.0314	3.14	0.9686	1038.6820	181.1526	160.00	31.00	0.1711	129.3842	4.8628
2.50	99.0	19.008	0.0349	3.49	0.9651	1042.4345	182.3424	160.00	31.00	0.1700	129.7808	4.8658
2.75	98.0	18.816	0.0384	3.84	0.9616	1046.2142	179.8485	160.00	31.00	0.1724	128.9495	4.8594
3.00	98.5	18.912	0.0418	4.18	0.9582	1050.0213	180.1106	160.00	31.00	0.1721	129.0369	4.8601
3.25	99.5	19.104	0.0453	4.53	0.9547	1053.8563	181.2771	161.00	32.00	0.1765	128.4257	4.8554
3.50	99.5	19.104	0.0488	4.88	0.9512	1057.7195	180.6150	161.00	32.00	0.1772	128.2050	4.8536
3.75	100.0	19.200	0.0523	5.23	0.9477	1061.6110	180.8572	161.00	32.00	0.1769	128.2857	4.8543
4.00	101.5	19.488	0.0558	5.58	0.9442	1065.5313	182.8947	161.00	32.00	0.1750	128.9649	4.8595
4.25	101.5	19.488	0.0593	5.93	0.9407	1069.4806	182.2193	161.00	32.00	0.1756	128.7398	4.8578
4.50	102.0	19.584	0.0628	6.28	0.9372	1073.4593	182.4382	161.00	32.00	0.1754	128.8127	4.8584
4.75	102.0	19.584	0.0662	6.62	0.9338	1077.4678	181.7595	161.00	32.00	0.1761	128.5865	4.8566
5.00	102.5	19.680	0.0697	6.97	0.9303	1081.5062	181.9684	161.00	32.00	0.1759	128.6561	4.8571
5.25	104.0	19.968	0.0732	7.32	0.9268	1085.5751	183.9394	160.00	31.00	0.1685	130.3131	4.8699
5.50	105.0	20.160	0.0767	7.67	0.9233	1089.6747	185.0093	160.00	31.00	0.1676	130.6698	4.8727
5.75	105.0	20.160	0.0802	8.02	0.9198	1093.8054	184.3107	160.00	31.00	0.1682	130.4369	4.8709
6.00	105.0	20.160	0.0837	8.37	0.9163	1097.9675	183.6120	160.00	31.00	0.1688	130.2040	4.8691
6.25	105.0	20.160	0.0872	8.72	0.9128	1102.1614	182.9133	160.00	31.00	0.1695	129.9711	4.8673
6.50	106.5	20.448	0.0907	9.07	0.9093	1106.3875	184.8177	159.00	30.00	0.1623	131.6059	4.8798
6.75	107.0	20.544	0.0941	9.41	0.9059	1110.6461	184.9734	159.00	30.00	0.1622	131.6578	4.8802
7.00	106.0	20.352	0.0976	9.76	0.9024	1114.9377	182.5394	158.00	29.00	0.1589	131.8465	4.8816
7.25	105.0	20.160	0.1011	10.11	0.8989	1119.2625	180.1186	158.00	29.00	0.1610	131.0395	4.8755
7.50	106.0	20.352	0.1046	10.46	0.8954	1123.6210	181.1287	157.00	28.00	0.1546	132.3762	4.8856
7.75	107.0	20.544	0.1081	10.81	0.8919	1128.0136	182.1255	157.00	28.00	0.1537	132.7085	4.8882
8.00	108.0	20.736	0.1116	11.16	0.8884	1132.4406	183.1089	157.00	28.00	0.1529	133.0363	4.8906
8.25	108.0	20.736	0.1151	11.51	0.8849	1136.9025	182.3903	157.00	28.00	0.1535	132.7968	4.8888
8.50	108.0	20.736	0.1185	11.85	0.8815	1141.3998	181.6717	157.00	28.00	0.1541	132.5572	4.8870
8.75	108.5	20.832	0.1220	12.20	0.8780	1145.9327	181.7908	157.00	28.00	0.1540	132.5969	4.8873
9.00	108.5	20.832	0.1255	12.55	0.8745	1150.5019	181.0688	157.00	28.00	0.1546	132.3563	4.8855
9.25	109.0	20.928	0.1290	12.90	0.8710	1155.1076	181.1779	157.00	28.00	0.1545	132.3926	4.8858
9.50	109.0	20.928	0.1325	13.25	0.8675	1159.7503	180.4526	156.00	27.00	0.1496	133.1509	4.9115
9.75	109.0	20.928	0.1360	13.60	0.8640	1164.4305	179.7274	156.00	27.00	0.1502	132.9091	4.8897
10.00	109.5	21.024	0.1395	13.95	0.8605	1169.1486	179.8232	156.00	27.00	0.1501	132.9411	4.8899
10.25	109.5	21.024	0.1430	14.30	0.8570	1173.9051	179.0945	155.00	26.00	0.1452	133.6982	4.8956
10.50	110.0	21.120	0.1464	14.64	0.8536	1178.7004	179.1804	155.00	26.00	0.1451	133.7268	4.8958
10.75	110.0	21.120	0.1499	14.99	0.8501	1183.5351	178.4484	155.00	26.00	0.1457	133.4828	4.8940
11.00	111.5	21.408	0.1534	15.34	0.8466	1188.4097	180.1399	155.00	26.00	0.1443	134.0466	4.8982
11.25	113.5	21.792	0.1569	15.69	0.8431	1193.3245	182.6159	153.00	24.00	0.1314	136.8720	4.9190
11.50	115.0	22.080	0.1604	16.04	0.8396	1198.2802	184.2641	153.00	24.00	0.1302	137.4214	4.9231
11.75	114.0	21.888	0.1639	16.39	0.8361	1203.2772	181.9032	152.00	23.00	0.1264	137.6344	4.9246
12.00	113.0	21.696	0.1674	16.74	0.8326	1208.3160	179.5557	152.00	23.00	0.1281	136.8519	4.9189
12.25	113.5	21.792	0.1709	17.09	0.8291	1213.3973	179.5949	152.00	23.00	0.1281	136.8650	4.9190
12.50	113.0	21.696	0.1743	17.43	0.8257	1218.5214	178.0519	152.00	23.00	0.1292	136.3506	4.9152
12.75	112.5	21.600	0.1778	17.78	0.8222	1223.6890	176.5154	152.00	23.00	0.1303	135.8385	4.9115
13.00	113.0	21.696	0.1813	18.13	0.8187	1228.9006	176.5480	152.00	23.00	0.1303	135.8493	4.9115
13.25	116.0	22.272	0.1848	18.48	0.8152	1234.1568	180.4633	151.00	22.00	0.1219	138.1544	4.9284
13.50	119.0	22.848	0.1883	18.83	0.8117	1239.4582	184.3386	151.00	22.00	0.1193	139.4462	4.9377
13.75	119.5	22.944	0.1918	19.18	0.8082	1244.8053	184.3180	151.00	22.00	0.1194	139.4393	4.9376
14.00	120.0	23.040	0.1953	19.53	0.8047	1250.1987	184.2907	151.00	22.00	0.1194	139.4302	4.9376
14.25	119.5	22.944	0.1987	19.87	0.8013	1255.6391	182.7277	151.00	22.00	0.1204	138.9092	4.9338
14.50	119.0	22.848	0.2022	20.22	0.7978	1261.1270	181.1713	151.00	22.00	0.1214	138.3904	4.9301
14.75	117.0	22.464	0.2057	20.57	0.7943	1266.6632	177.3479	150.00	21.00	0.1184	138.1160	4.9281
15.00	116.5	22.368	0.2092	20.92	0.7908	1272.2481	175.8148	150.00	21.00	0.1194	137.6049	4.9244

**Sampel 3 (  $\sigma_3' = 150 \text{ Kpa}$  )**

Jenis Tanah : Soft Clay 32% With 2 Geo  
 Proses : Kompresi

Diameter Sampel : 35.80 mm  
 Tinggi Sampel (Lo) : 71.70 mm  
 Luas Penampang : 1006.09 mm

Displacement $\Delta L$ (mm)	Load Dial	Piston Load P (kg)	$\Delta L / L_0$	Strain $\epsilon$ (%)	Area Correction Factor	Corrected Area (mm <sup>2</sup> )	Deviator Stress $\Delta \sigma$ (kPa)	Pore Pressure U (kPa)	$\Delta u$ (kPa)	$\bar{A}$ $\Delta u / \Delta \sigma$	$p'$ (kPa)	$\ln p'$
0.00	0.0	0.000	0.0000	0.00	1.0000	1006.0874	0.0000	220.00	0.00		150.0000	5.0106
0.25	44.0	8.448	0.0035	0.35	0.9965	1009.6076	83.6761	225.00	5.00	0.0598	172.8920	5.1527
0.50	55.0	10.560	0.0070	0.70	0.9930	1013.1526	104.2291	225.00	5.00	0.0480	179.7430	5.1915
0.75	65.0	12.480	0.0105	1.05	0.9895	1016.7226	122.7473	230.00	10.00	0.0815	180.9158	5.1980
1.00	75.0	14.400	0.0139	1.39	0.9861	1020.3178	141.1325	230.00	10.00	0.0709	187.0442	5.2313
1.25	84.0	16.128	0.0174	1.74	0.9826	1023.9385	157.5095	235.00	15.00	0.0952	187.5032	5.2338
1.50	93.0	17.856	0.0209	2.09	0.9791	1027.5850	173.7666	235.00	15.00	0.0863	192.9222	5.2623
1.75	102.0	19.584	0.0244	2.44	0.9756	1031.2576	189.9041	240.00	20.00	0.1053	193.3014	5.2643
2.00	111.0	21.312	0.0279	2.79	0.9721	1034.9565	205.9217	240.00	20.00	0.0971	198.6406	5.2915
2.25	115.0	22.080	0.0314	3.14	0.9686	1038.6820	212.5771	245.00	25.00	0.1176	195.8590	5.2774
2.50	120.0	23.040	0.0349	3.49	0.9651	1042.4345	221.0211	245.00	25.00	0.1131	198.6737	5.2917
2.75	124.0	23.808	0.0384	3.84	0.9616	1046.2142	227.5634	250.00	30.00	0.1318	195.8545	5.2774
3.00	128.0	24.576	0.0418	4.18	0.9582	1050.0213	234.0524	250.00	30.00	0.1282	198.0175	5.2884
3.25	130.0	24.960	0.0453	4.53	0.9547	1053.8563	236.8444	255.00	35.00	0.1478	193.9481	5.2676
3.50	132.0	25.344	0.0488	4.88	0.9512	1057.7195	239.6099	255.00	35.00	0.1461	194.8700	5.2723
3.75	133.0	25.536	0.0523	5.23	0.9477	1061.6110	240.5401	260.00	40.00	0.1663	190.1800	5.2480
4.00	134.0	25.728	0.0558	5.58	0.9442	1065.5313	241.4570	260.00	40.00	0.1657	190.4857	5.2496
4.25	135.0	25.920	0.0593	5.93	0.9407	1069.4806	242.3606	260.00	40.00	0.1650	190.7869	5.2512
4.50	136.0	26.112	0.0628	6.28	0.9372	1073.4593	243.2509	265.00	45.00	0.1850	186.0836	5.2262
4.75	137.0	26.304	0.0662	6.62	0.9338	1077.4678	244.1280	265.00	45.00	0.1843	186.3760	5.2278
5.00	138.0	26.496	0.0697	6.97	0.9303	1081.5062	244.9917	265.00	45.00	0.1837	186.6639	5.2293
5.25	139.0	26.688	0.0732	7.32	0.9268	1085.5751	245.8420	265.00	45.00	0.1830	186.9473	5.2308
5.50	140.0	26.880	0.0767	7.67	0.9233	1089.6747	246.6791	265.00	45.00	0.1824	187.2264	5.2323
5.75	141.0	27.072	0.0802	8.02	0.9198	1093.8054	247.5029	263.00	43.00	0.1737	189.5010	5.2444
6.00	142.0	27.264	0.0837	8.37	0.9163	1097.9675	248.3134	263.00	43.00	0.1732	189.7711	5.2458
6.25	143.0	27.456	0.0872	8.72	0.9128	1102.1614	249.1105	263.00	43.00	0.1726	190.0368	5.2472
6.50	144.0	27.648	0.0907	9.07	0.9093	1106.3875	249.8944	263.00	43.00	0.1721	190.2981	5.2486
6.75	145.0	27.840	0.0941	9.41	0.9059	1110.6461	250.6649	263.00	43.00	0.1715	190.5550	5.2499
7.00	146.0	28.032	0.0976	9.76	0.9024	1114.9377	251.4221	263.00	43.00	0.1710	190.8074	5.2513
7.25	147.0	28.224	0.1011	10.11	0.8989	1119.2625	252.1661	263.00	43.00	0.1705	191.0554	5.2526
7.50	148.0	28.416	0.1046	10.46	0.8954	1123.6210	252.8967	263.00	43.00	0.1700	191.2989	5.2538
7.75	149.0	28.608	0.1081	10.81	0.8919	1128.0136	253.6140	263.00	43.00	0.1695	191.5380	5.2551
8.00	150.0	28.800	0.1116	11.16	0.8884	1132.4406	254.3180	262.00	42.00	0.1651	192.7727	5.2615
8.25	151.0	28.992	0.1151	11.51	0.8849	1136.9025	255.0087	262.00	42.00	0.1647	193.0029	5.2627
8.50	152.0	29.184	0.1185	11.85	0.8815	1141.3998	255.6860	262.00	42.00	0.1643	193.2287	5.2639
8.75	153.0	29.376	0.1220	12.20	0.8780	1145.9327	256.3501	262.00	42.00	0.1638	193.4500	5.2650
9.00	153.0	29.376	0.1255	12.55	0.8745	1150.5019	255.3321	262.00	42.00	0.1645	193.1107	5.2633
9.25	153.0	29.376	0.1290	12.90	0.8710	1155.1076	254.3140	262.00	42.00	0.1652	192.7713	5.2615
9.50	153.0	29.376	0.1325	13.25	0.8675	1159.7503	253.2959	262.00	42.00	0.1658	192.4320	5.2597
9.75	154.0	29.568	0.1360	13.60	0.8640	1164.4305	253.9267	262.00	42.00	0.1654	192.6422	5.2608
10.00	154.0	29.568	0.1395	13.95	0.8605	1169.1486	252.9020	262.00	42.00	0.1661	192.3007	5.2591
10.25	154.0	29.568	0.1430	14.30	0.8570	1173.9051	251.8773	261.00	41.00	0.1628	192.9591	5.2625
10.50	155.0	29.760	0.1464	14.64	0.8536	1178.7004	252.4815	261.00	41.00	0.1624	193.1605	5.2635
10.75	155.0	29.760	0.1499	14.99	0.8501	1183.5351	251.4501	261.00	41.00	0.1631	192.8167	5.2617
11.00	155.0	29.760	0.1534	15.34	0.8466	1188.4097	250.4187	261.00	41.00	0.1637	192.4729	5.2600
11.25	156.0	29.952	0.1569	15.69	0.8431	1193.3245	250.9963	261.00	41.00	0.1633	192.6654	5.2610
11.50	156.0	29.952	0.1604	16.04	0.8396	1198.2802	249.9582	260.00	40.00	0.1600	193.3194	5.2643
11.75	156.0	29.952	0.1639	16.39	0.8361	1203.2772	248.9202	260.00	40.00	0.1607	192.9734	5.2626
12.00	157.0	30.144	0.1674	16.74	0.8326	1208.3160	249.4712	260.00	40.00	0.1603	193.1571	5.2635
12.25	157.0	30.144	0.1709	17.09	0.8291	1213.3973	248.4265	259.00	39.00	0.1570	193.8088	5.2669
12.50	158.0	30.336	0.1743	17.43	0.8257	1218.5214	248.9575	259.00	39.00	0.1567	193.9858	5.2678
12.75	158.0	30.336	0.1778	17.78	0.8222	1223.6890	247.9061	259.00	39.00	0.1573	193.6354	5.2660
13.00	159.0	30.528	0.1813	18.13	0.8187	1228.9006	248.4172	259.00	39.00	0.1570	193.8057	5.2669
13.25	159.0	30.528	0.1848	18.48	0.8152	1234.1568	247.3592	259.00	39.00	0.1577	193.4531	5.2650
13.50	160.0	30.720	0.1883	18.83	0.8117	1239.4582	247.8502	259.00	39.00	0.1574	193.6167	5.2659
13.75	160.0	30.720	0.1918	19.18	0.8082	1244.8053	246.7856	258.00	38.00	0.1540	194.2619	5.2692
14.00	161.0	30.912	0.1953	19.53	0.8047	1250.1987	247.2567	258.00	38.00	0.1537	194.4189	5.2700
14.25	161.0	30.912	0.1987	19.87	0.8013	1255.6391	246.1854	258.00	38.00	0.1544	194.0618	5.2682
14.50	162.0	31.104	0.2022	20.22	0.7978	1261.1270	246.6365	257.00	37.00	0.1500	195.2122	5.2741
14.75	162.0	31.104	0.2057	20.57	0.7943	1266.6632	245.5586	257.00	37.00	0.1507	194.8529	5.2722
15.00	163.0	31.296	0.2092	20.92	0.7908	1272.2481	245.9898	256.00	36.00	0.1463	195.9966	5.2781



**LAMPIRAN 5**

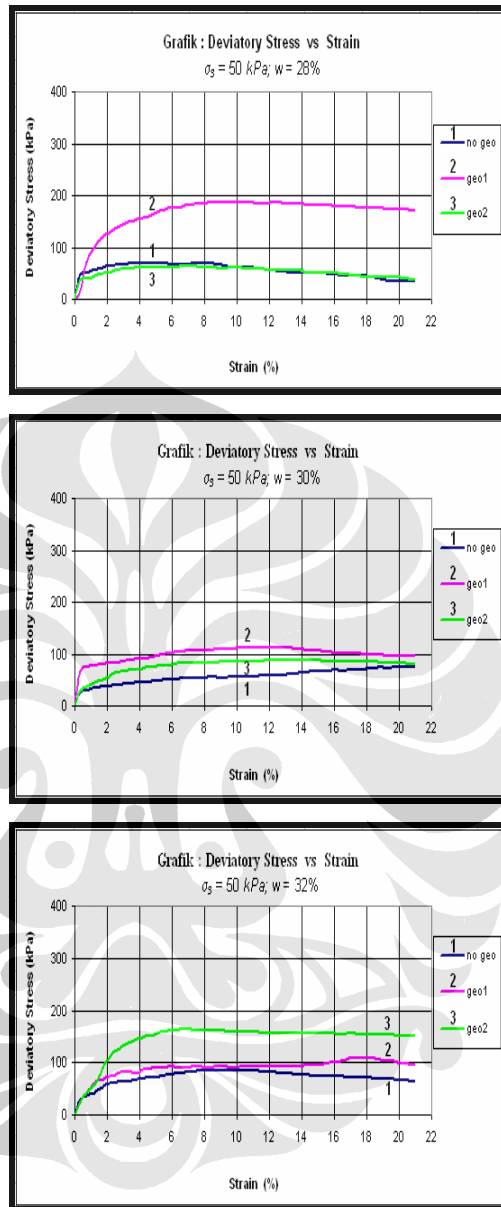
***GRAFIK DEVIATORY STRESS VS STRAIN***

**TERHADAP PERUBAHAN  $\sigma_3$**

***TRIAKSIAL CONSOLIDATED UNDRAINED (CU)***

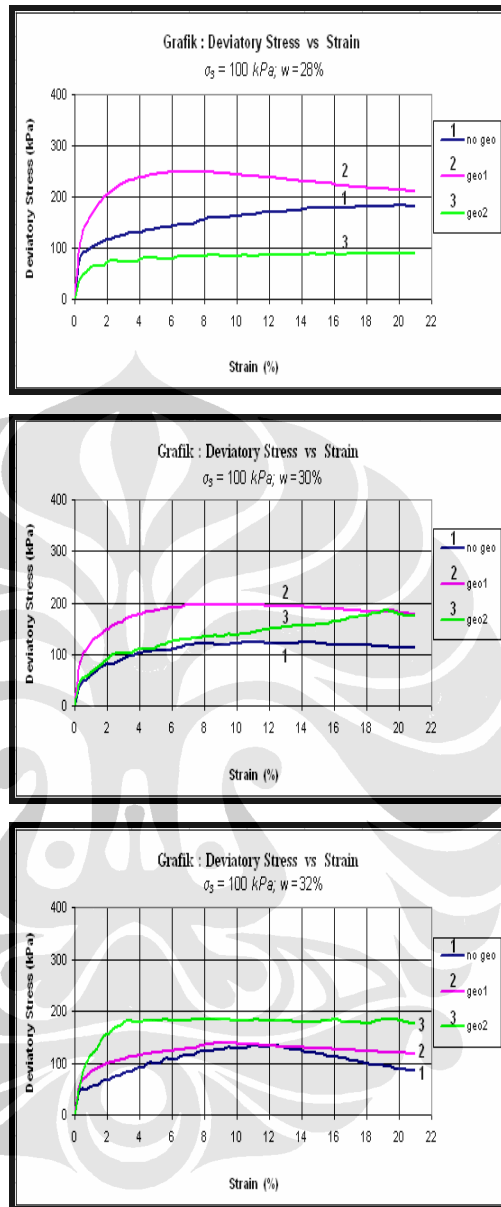


I. Grafik Deviatory Stress Vs Strain dengan  $\sigma_3 = 50$  kPa



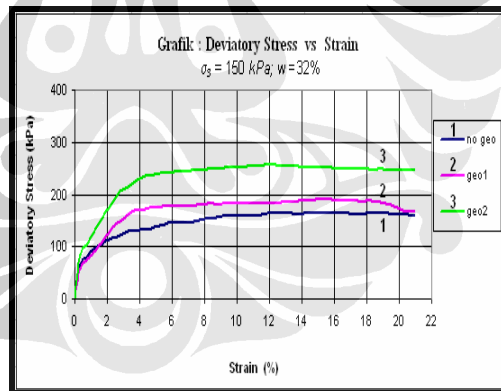
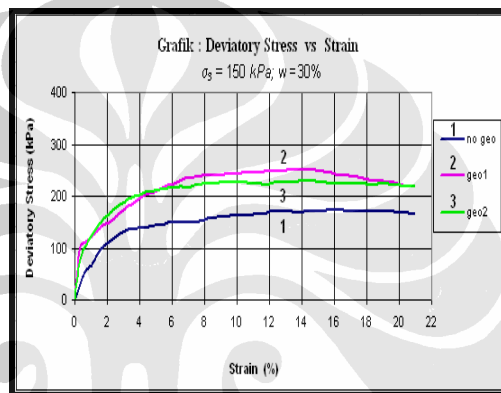
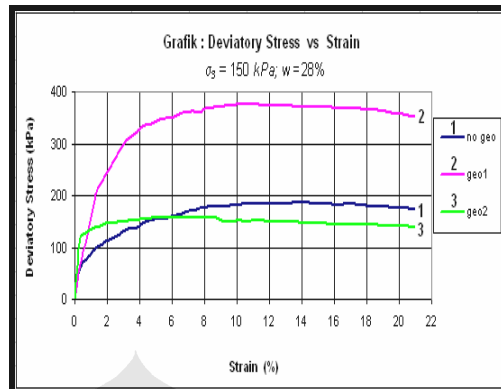
Gambar 5-4. Grafik *Deviatory Stress Vs Strain* Triaksial CU dengan  $\sigma_3=50$  kPa.

## II. Grafik *Deviatory Stress Vs Strain* dengan $\sigma_3 = 100$ kPa



Gambar 5-5. Grafik *Deviatory Stress Vs Strain* Triaksial CU dengan  $\sigma_3=100$  kPa.

### III. Grafik Deviatory Stress Vs Strain dengan $\sigma_3 = 150$ kPa












Gambar 5-6. Grafik *Deviatory Stress Vs Strain* Triaksial CU dengan  $\sigma_3=150$  kPa.



**LAMPIRAN 6**

**FOTO - FOTO CONTOH UJI**

***UNCONFINED COMPRESSION TEST (UCT)***

		
28% no geo	28% geo1	28% geo2
		
30% no geo	30% geo1	30% geo2
		
32% no geo	32% geo1	32% geo2












**LAMPIRAN 7**





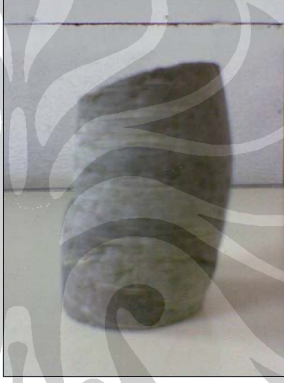




**FOTO - FOTO CONTOH UJI  
TRIAKSIAL *CONSOLIDATED UNDRAINED (CU)***












Kadar air 28%

		
no geo - $\sigma_3 = 50$ kPa	geo1 - $\sigma_3 = 50$ kPa	geo2 - $\sigma_3 = 50$ kPa
		
no geo - $\sigma_3 = 100$ kPa	geo1 - $\sigma_3 = 100$ kPa	geo2 - $\sigma_3 = 100$ kPa
		
no geo - $\sigma_3 = 150$ kPa	geo1 - $\sigma_3 = 150$ kPa	geo2 - $\sigma_3 = 150$ kPa

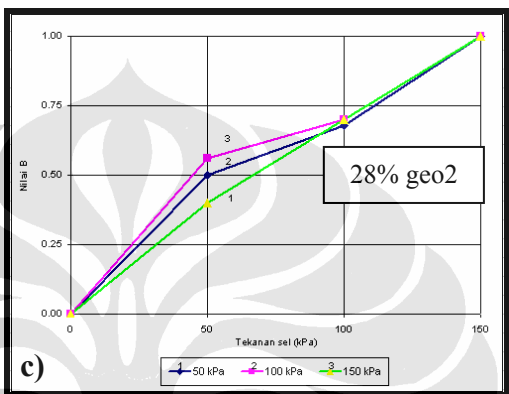
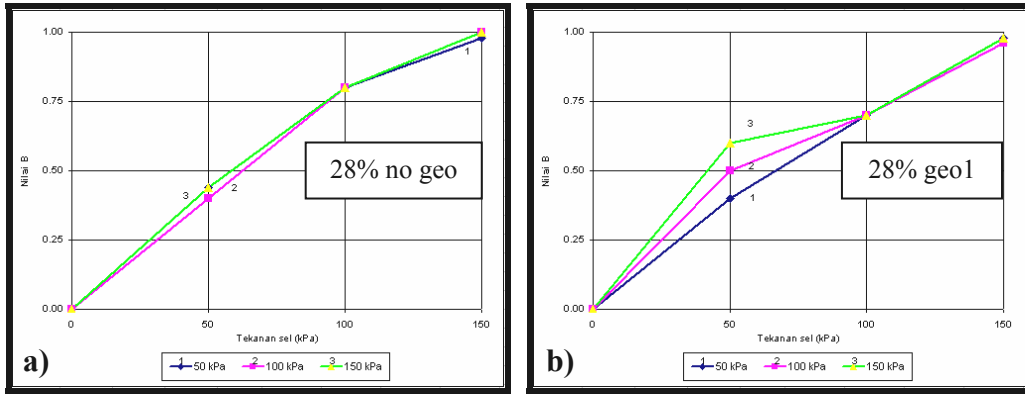
Kadar air 30%

		
no geo - $\sigma_3 = 50$ kPa	geo1 - $\sigma_3 = 50$ kPa	geo2 - $\sigma_3 = 50$ kPa
		
no geo - $\sigma_3 = 100$ kPa	geo1 - $\sigma_3 = 100$ kPa	geo2 - $\sigma_3 = 100$ kPa
		
no geo - $\sigma_3 = 150$ kPa	geo1 - $\sigma_3 = 150$ kPa	geo2 - $\sigma_3 = 150$ kPa

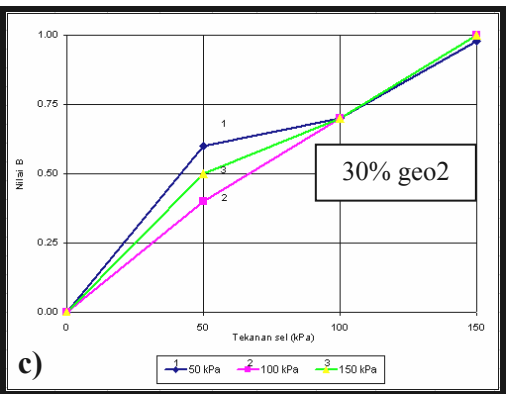
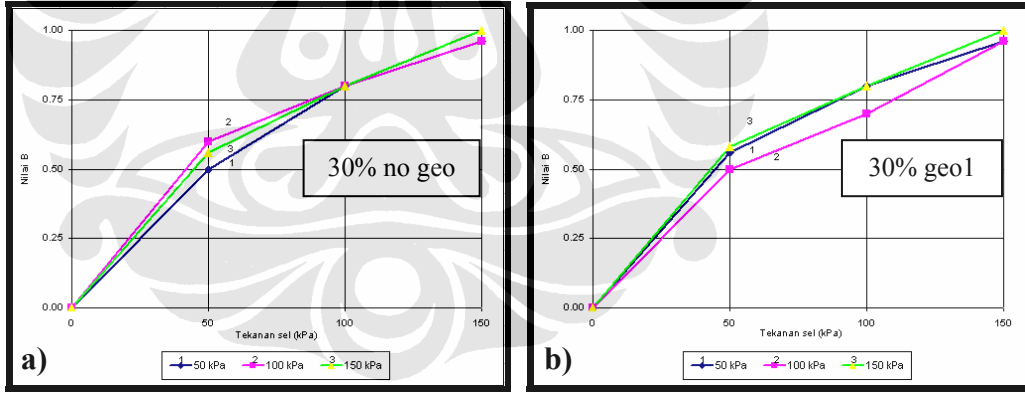
Kadar air 32%

		
no geo - $\sigma_3 = 50$ kPa	geo1 - $\sigma_3 = 50$ kPa	geo2 - $\sigma_3 = 50$ kPa
		
no geo - $\sigma_3 = 100$ kPa	geo1 - $\sigma_3 = 100$ kPa	geo2 - $\sigma_3 = 100$ kPa
		
no geo - $\sigma_3 = 150$ kPa	geo1 - $\sigma_3 = 150$ kPa	geo2 - $\sigma_3 = 150$ kPa

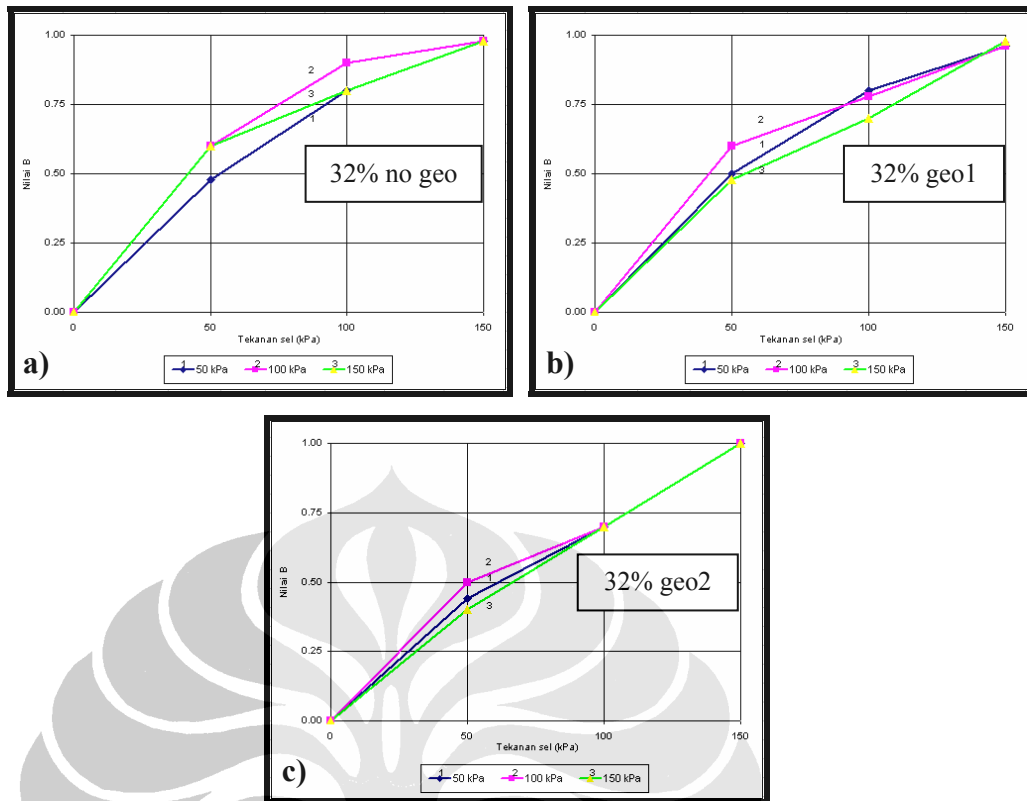




Gambar 5-7. Grafik Nilai B Vs Tekanan Sel contoh uji triaksial CU untuk kadar air 28%



Gambar 5-8. Grafik Nilai B Vs Tekanan Sel contoh uji triaksial CU untuk kadar air 30%



Gambar 5-9. Grafik Nilai B Vs Tekanan Sel contoh uji triaksial CU untuk kadar air 32%



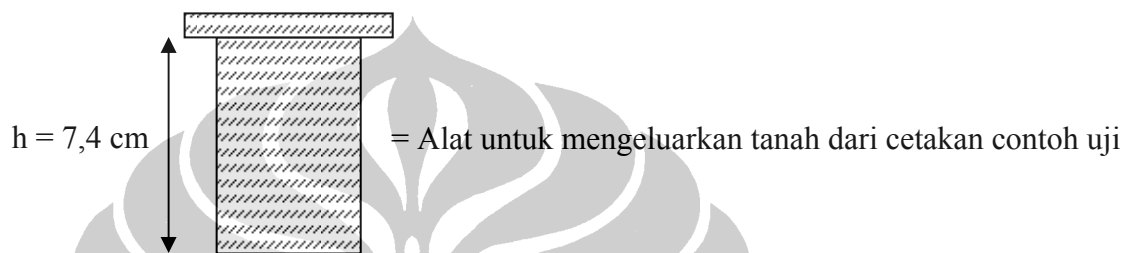
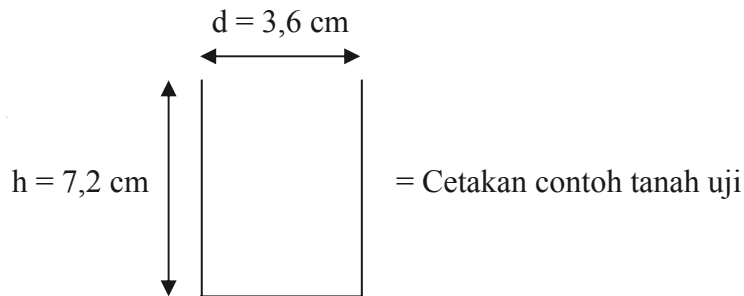


**LAMPIRAN 9**

**SKETSA TEKNIS**

**PENCETAKAN CONTOH UJI**

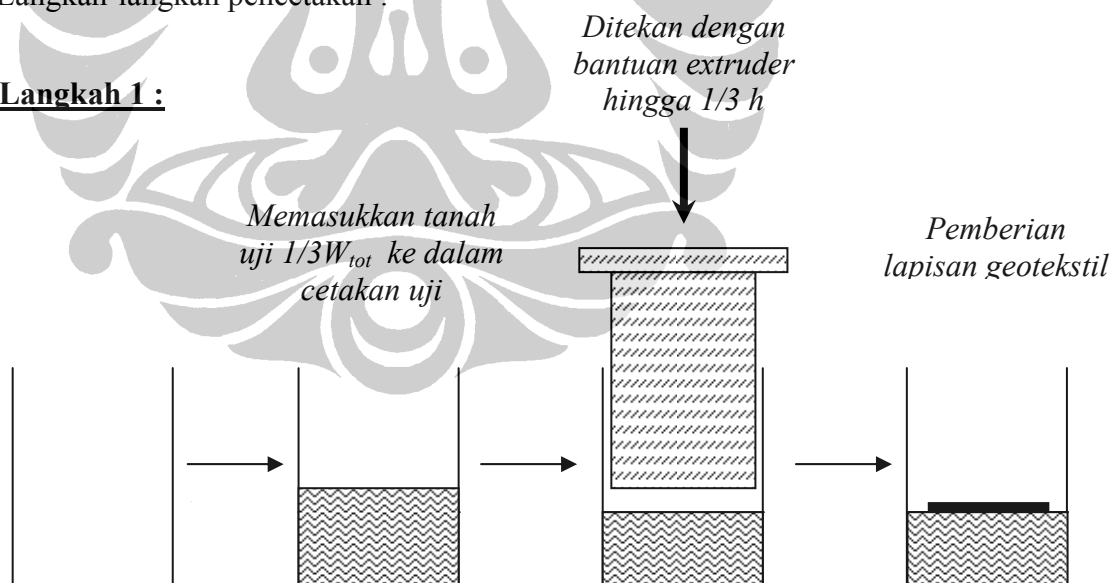
Alat-alat yang digunakan :



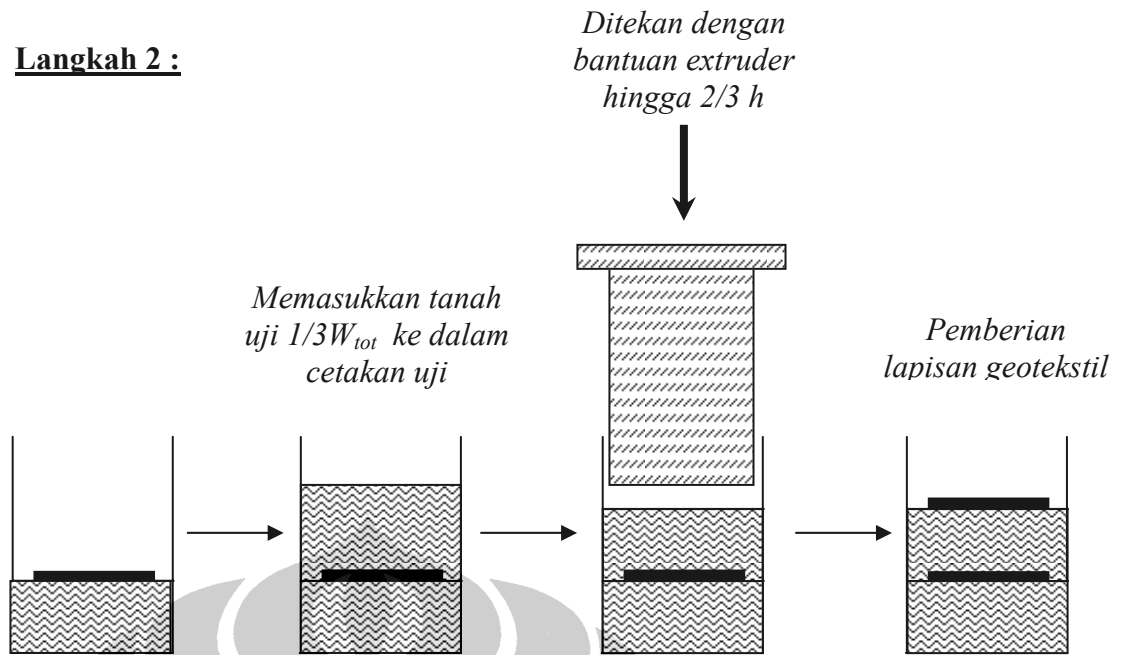
 = Geotekstil dengan diameter 2,6 cm

Langkah-langkah pencetakan :

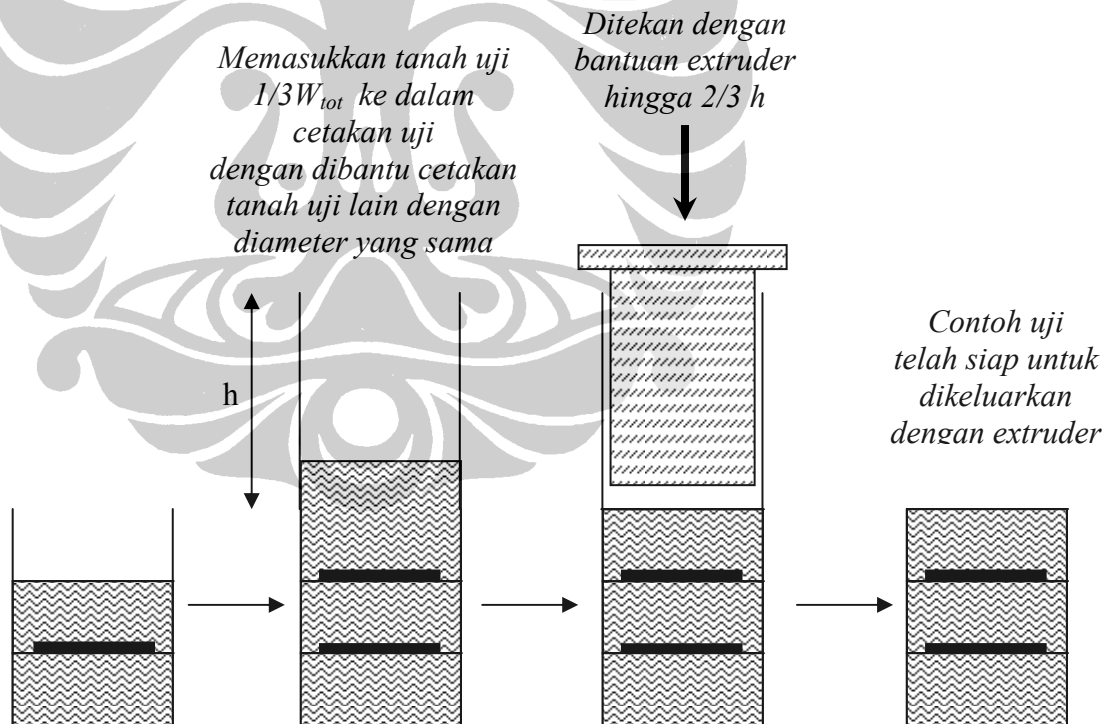
**Langkah 1 :**



**Langkah 2 :**



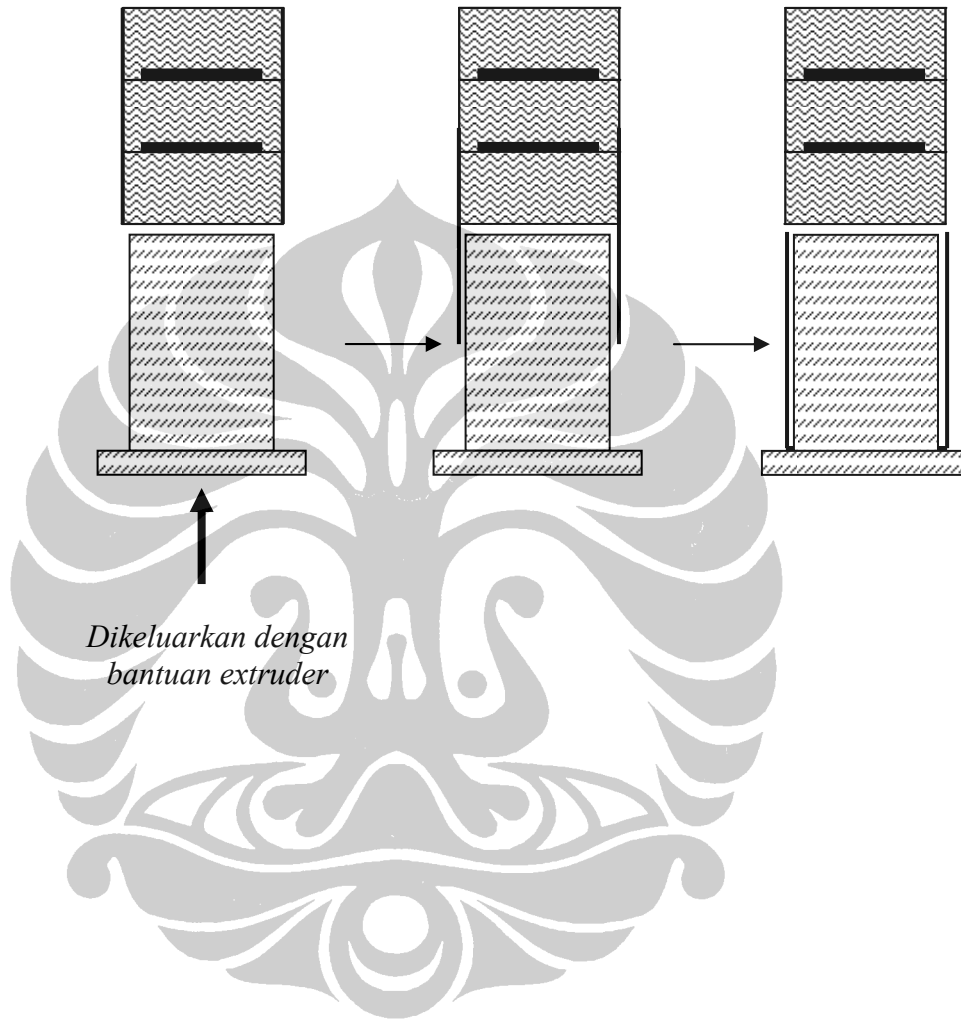
**Langkah 3 :**



**Langkah 4 :**

*Contoh uji  
baru keluar ½ dari  
cetakan tanah uji*

*Contoh uji  
telah siap untuk  
digunakan*





**LAMPIRAN 10**  
**CONTOH KASUS**  
**PENGGUNAAN PARAMETER GESER**  
**DARI PENGGUNAAN LAPISAN GEOTEKSTIL**  
**PADA PONDASI DANGKAL**



### **Contoh Soal :**

Sebuah pondasi bujur sangkar dengan sisi-sisi 2 m diletakkan pada kedalaman 1 m pada 1 lapis tanah lempung lunak (*soft clay*) dengan kedalaman tanah keras sangat dalam. Berat isi tanah lempung lunak di atas muka air tanah adalah  $16 \text{ kN/m}^3$  dan berat isi jenuhnya  $20 \text{ kN/m}^3$ . Carilah daya dukung ultimitnya jika tanah lempung lunak tersebut diberi perkuatan lapisan geotekstil sebanyak 1 lapis dengan data sebagai berikut :

Sebelum diperkuat :  $c_1 = 9,82 \text{ kPa}$

$$\phi_1 = 24,60^\circ$$

Setelah diperkuat :  $c_2 = 20,55 \text{ kPa}$

$$\phi_2 = 25,14^\circ$$

### **Jawab :**

Untuk pondasi bujur sangkar, daya dukung ultimit diberikan oleh persamaan :

$$q_f = 0,4\gamma BN_\gamma + 1,2cN_c + \gamma DN_q$$

Faktor-faktor daya dukungnya berdasarkan gambar 8.4 buku R.F. Craig didapatkan :

$$\phi_1 = 24,60^\circ \rightarrow N_\gamma = 6 \text{ (Meyerhof)}$$

$$N_c = 20$$

$$N_q = 10$$

$$\phi_2 = 25,14^\circ \rightarrow N_\gamma = 7 \text{ (Meyerhof)}$$

$$N_c = 22$$

$$N_q = 12$$

Karena itu akan didapatkan daya dukung ultimit sebagai berikut :

	$q_f$ (kPa)	% peningkatan
<b>Sebelum diperkuat</b>	472,48	0
<b>Setelah diperkuat</b>	824,12	74,42